



wcg™ **velos**
eSample User Guide



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1 About This Guide

This document presents the following topics:

- Create Specimen Acquisition
- Manage Specimen Processing and Tracking
- Analyze Assay Results
- Define Association to Study and/or Patient
- Generate Labels
- Create Queries and Analyze Data
- Oversee Sample Collections

Note: Depending on your specific permissions, some functions described in this guide may not appear in your user interface. If you see a functionality that you believe you should have access to, please contact your system administrator for assistance

1.1 Who Should Use It?

This guide is intended for study team administrators, researchers and investigators throughout the entire sample management process. It assumes users have a knowledge of managing patient data, clinical trial management systems, and clinical trial regulatory requirements.



2 eSample Overview

Velos eSample is a biospecimen research management solution that supports researchers, investigators, and study teams throughout the entire sample management process. It supports specimen acquisition, processing and tracking, assay results collection, association to patient and/or study data, label generation, the ability to query and analyze data, and manage study-based sample collection workflows. These capabilities combine to expedite the research process, enhance data quality and improve data access, and enable integrated specimen, patient, and research subject data collection. In addition, standard pre-defined reports or ad-hoc query reporting feature are part of the solution to view and analyze data collected through the application.

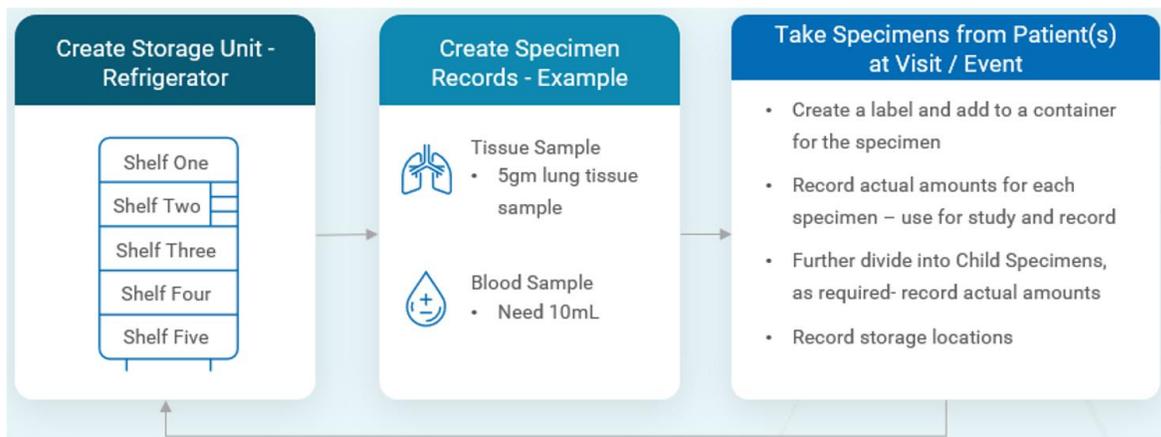
Four functions define the eSample module:

- **Specimens:** Samples are created and/or managed through this browser. In addition, a bulk specimen upload and status change can be performed.
- **Storage Admin:** From this browser, storage units are created and modified. Storage units are used to indicate the specimen location for specimens housed within the institution's facilities.
- **Storage Kit Library:** A storage kit is a virtual representation of the sample kit used to collect specimens during a study visit. A storage kit is a set of components (storage units, i.e. test tubes). Storage kits are linked to a study calendars to indicate when and what type of sample will be collected.
- **Preparation Area:** The Preparation Area is used to automate and accelerate study-based sample collection using pre-defined storage kits.

2.1 eSample Workflows

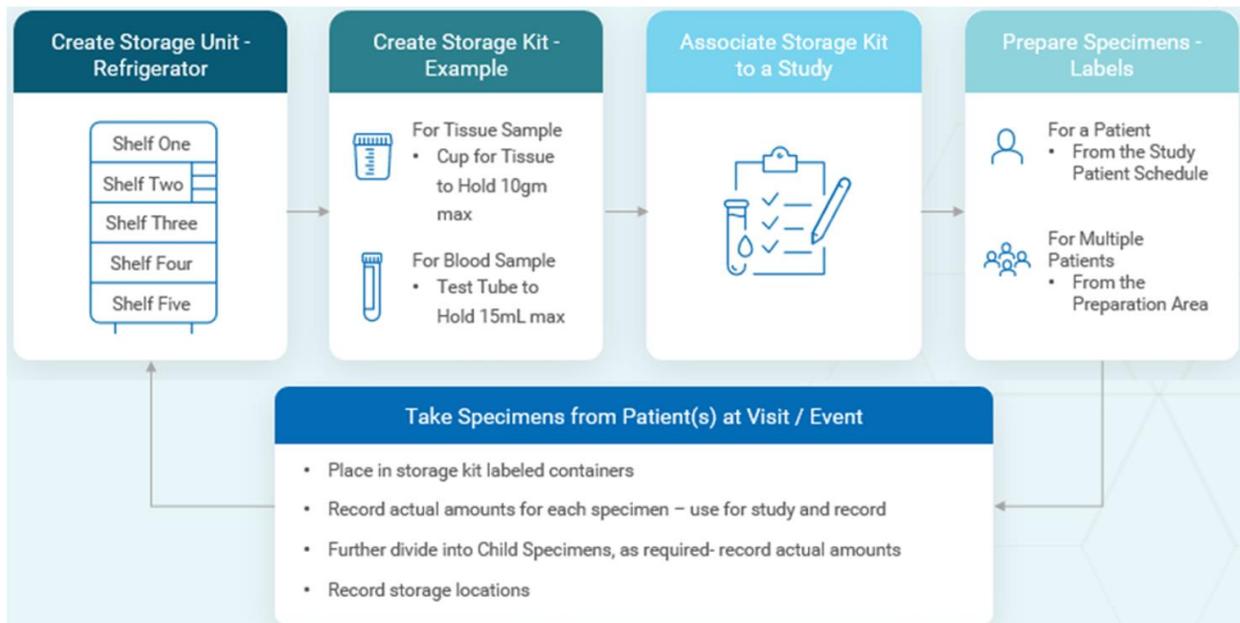
There are two basic workflows in eSample, as shown below, one is considered manual and the other is considered automated. Workflows will vary depending on procedural needs of a client.

MANUAL SPECIMEN COLLECTION: Specimens which are entered at the time of collection which may be collected for a study or anonymously for a biobank or a biorepository.



1. Storage locations can be created for samples.
 - a. For example, the samples here are going to go into a refrigerator with five shelves. This storage unit could have shelves further divided, such as in shelf two where there are three additional storage containers. While this is not a mandatory step, it is helpful if you want to mimic your real-world storage locations and track sample locations.
2. Specimen records can be recorded for each type of specimen that is being collected.
 - a. For this example, the doctor is going to collect a minimum of 5 grams of lung tissue and a separate specimen of 10 milliliters of blood.
3. The collection date and the amount collected can be recorded for each specimen. The samples could be used for a study immediately or stored and tracked for later use. If used for a study, the used amount and remaining amounts can be recorded in the Specimens tab. If stored, a label can also be added to the container storing the specimen sample.
 - a. Also, for example, if the blood sample needs to be used for two tests, this specimen can be broken into two children records and data for each can be recorded
4. Specimens can then be stored in the storage unit.

AUTOMATED SPECIMEN COLLECTION: Involves using planned study specimen preparation and collection using storage kits.



1. Storage locations can be created for samples.
2. Storage kits are used to define the number and types of samples you may need to collect for one or more visits, based on your study protocol.
 - a. In this example, the storage kit includes a cup for urine tissue collection which needs to be able to hold 30 ml and a test tube that can hold 5 ml of blood.
3. The storage kit would then be associated to a study's calendar or protocol to inform the system when and what type of samples may be collected during the patient visits
 - a. For a single patient, the specimen collections may be prepared directly in their study patient schedule, including printing labels.
 - b. For multiple patients who may be having the same type of specimens prepared on the same day, for example, their specimen collections can be prepared from the preparation area and labels printed. This step automates creation of required samples in bulk, that can be done ahead of real sample collection.
4. The specimens are collected and placed into the labelled storage kit collection containers.
5. The collection date and the amount collected can be recorded for each specimen, if necessary. The samples could be used for a study immediately or stored. If used for a study, the used amount and remaining amounts can be recorded. When samples are created through the

preparation area, the user checking-in samples should update the status and quantity as necessary.

- a. Also, children records could be used for further divided specimens (although in storage kit design, you can specify if children need to be created)
6. Specimens can then be stored in the storage unit.

2.2 Accessing eSample

In addition to having access to the eSample add-on, you will need the appropriate Inventory Management access rights in the groups area. **Refer to the Account Administration>Groups>Add a Group and Assign Users to a Group section in the eResearch User Guide** for more information on assigning access.

Access options available for Inventory Management include:

	New	Edit	View
Inventory Management	—		—
Manage Storages	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Manage Specimens	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Access rights can be managed to provide the following:

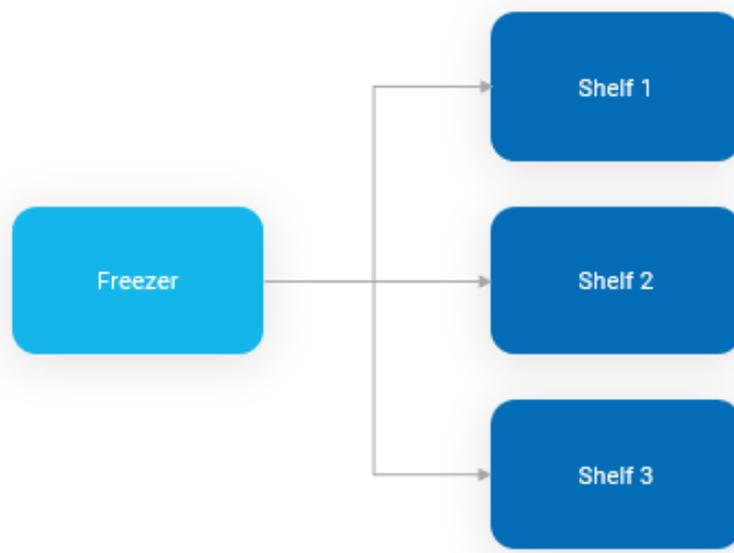
- Manage Storage access rights
- Manage Specimens access rights
- Study team role access/super user access rights to a study so that a user can view specimens that are linked to the appropriate studies
- Access to a patient's data prior to Specimen management so permissioned users can view specimens linked to the appropriate patients
- Access to the appropriate and specific organizations so that a user can view specimens linked to that organization
 - Access is available for organizing biobanks
- Access to the calendar library if lab staff will be utilizing storage kits

2.3 Storage Admin

The Storage Admin tab allows permissioned users to create and manage Storage Units.

Storage Units:

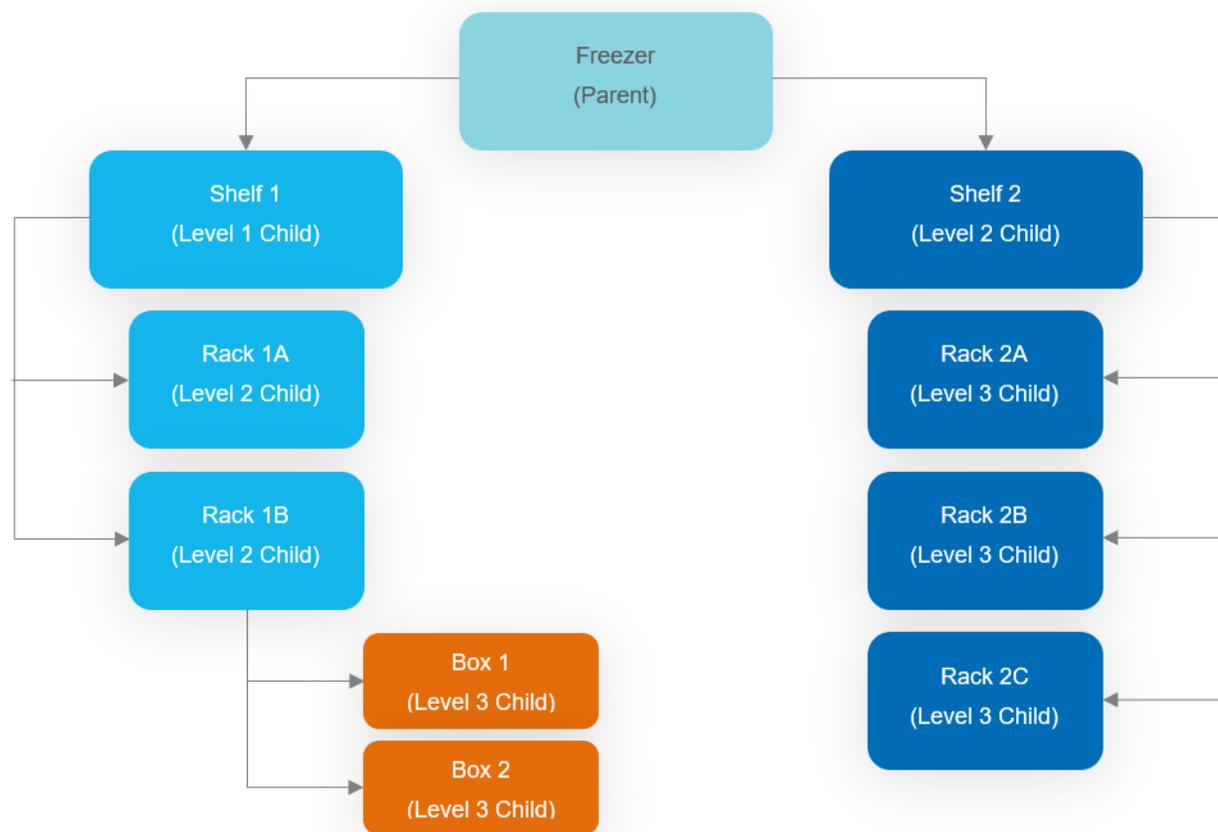
- are virtual representations of actual storage units such as freezers, refrigerators, etc.
- can be associated to a specimen to track a specimen's physical location
- are structured in a hierarchy to represent a physical unit:



2.3.1 Create a Storage Unit

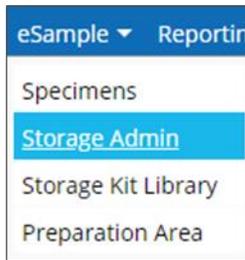
The following steps create a basic storage unit. The steps do not address all of the possible options that can be applied to a storage unit, as they can be personalized to fit any storage unit needs.

Note: When testing storage units, build a “simple” storage unit with 2 - 4 levels of child units. A simple storage unit allows a user to understand the storage unit hierarchy without being too overwhelming. A storage unit can have many child units which could be challenging when a new user is testing storage units.

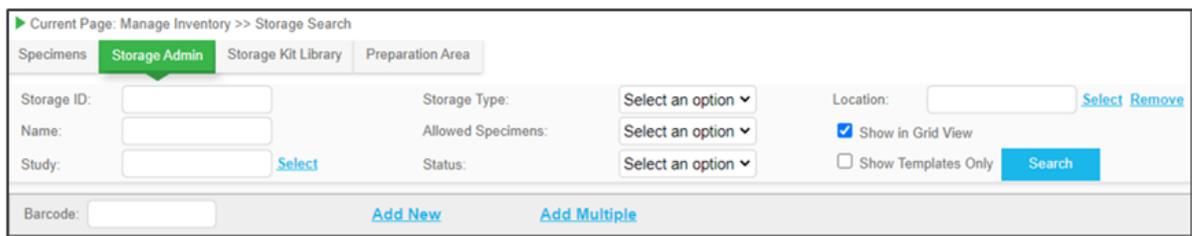


To create a storage unit:

1. From the Navigation bar, select **eSample** and click **Storage Admin**.



The Storage Admin tab displays:



Current Page: Manage Inventory >> Storage Search

Specimens **Storage Admin** Storage Kit Library Preparation Area

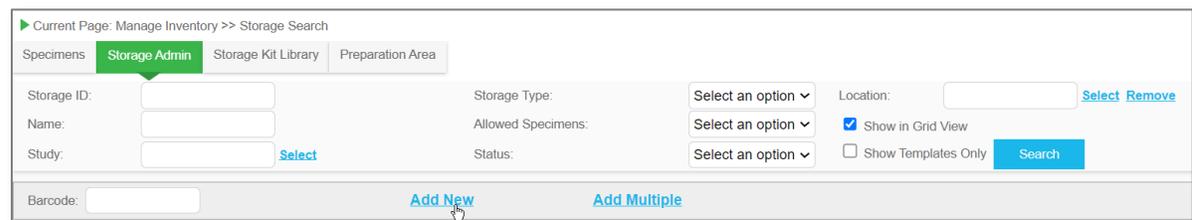
Storage ID: Storage Type: Location: [Select](#) [Remove](#)

Name: Allowed Specimens: Show in Grid View

Study: [Select](#) Status: Show Templates Only [Search](#)

Barcode: [Add New](#) [Add Multiple](#)

2. Click **Add New**.



Current Page: Manage Inventory >> Storage Search

Specimens **Storage Admin** Storage Kit Library Preparation Area

Storage ID: Storage Type: Location: [Select](#) [Remove](#)

Name: Allowed Specimens: Show in Grid View

Study: [Select](#) Status: Show Templates Only [Search](#)

Barcode: [Add New](#) [Add Multiple](#)

The Storage Unit Details page displays:



Current Page: Manage Inventory >> Storage Unit Details

Specimens **Storage Admin** Storage Kit Library Preparation Area

Leave 'Storage ID' field blank for system auto-generated ID

Storage ID:

Storage Name*

Storage Type*

Template Type

Alternate ID

Storage Unit Class

Notes

Location [Select](#) [Remove](#)

Storage Capacity Can store multiple Specimens

This Storage Unit is a Template

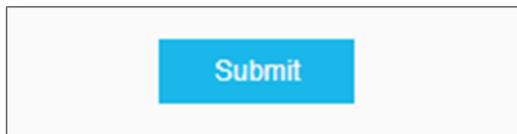
Warning: If a parent storage unit has the checkbox checked for 'Can Store Multiple Specimens', or if the unit is configured as CC/mg, the system will not allow allocation of storage units to specimens through bulk upload.

The following fields become available on this page to define the Storage Unit:

Field	Description
Storage ID	Enter an ID manually or leave it blank to auto-generate a system ID.
Storage Name	Enter in a Storage Name. This field is mandatory.
Storage Type	Select a Storage Type from the dropdown options available. This field is mandatory.
Template Type	Select a template type or keep as default.
Alternate ID	Enter an ID to be used as an Alternate ID.
Storage Unit Class	Define the Storage Unit Class from the available options: Permanent, Virtual, Temporary.
Notes	Enter any notes if applicable.
Storage Capacity	Enter a number and select an option from the dropdown option to define the Storage Capacity.
Location	Select a location for the Storage Unit using Select.
Allowed Contents	Click checkbox to select all options in Specimen Type and Storage Type line sections.
Specimen Type	Select one or multiple checkboxes to define the specimen type. It is possible to select which kind of specimen type to allow for the storage.
Storage Type	Select one or multiple checkboxes to define the Storage Type. It is possible to select which kind of storage type to allow for the storage.
Status	Select a status from the dropdown options. This field is mandatory.
Status Date	Enter a status date. This field is mandatory.
For Study	Select a Study to associate the Storage Unit with.
For User	Use the Select User link to select a User.
Status Notes	Enter in any Status Notes if applicable.
Child Storage Type	Select a Child Storage Type from the dropdown options.
Storage Naming Style	Select a Style from the dropdown options. Refers to the order in which the dimensions (rows and columns) are listed in the Storage name.
Dimension 1 (Columns) # of Cells	Define the number of cells for the dimension. This dimension will define the columns.
Dimension 2 (Rows) # of Cells	Define the number of cells for the dimension. This dimension will define the rows.
Naming Convention	Select an organizational Naming Convention for the Storage Unit.

Field	Description
Positioning	Use the dropdown options to define the position organization.

- Define fields as appropriate.
- Click **Submit** to save the Storage Unit.



The added Storage Unit is now able to be searched for on the Storage Admin page:

Storage Name	ID
AMcbnt Select	386
AMfrz Select	385
No.452Cabnt Select	396

2.3.2 Edit Storage Unit

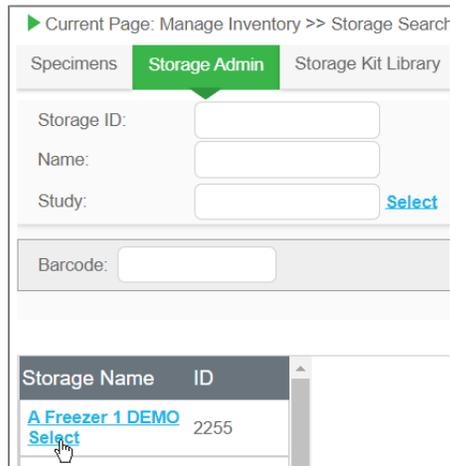
Storage units may be edited after their initial setup. The steps begin from the Storage Search page of the Storage Admin tab. Some examples for editing existing storage units include when a unit is retired.

Note: Once storage units are created, most users do not revisit this section unless acquiring a new storage unit or retiring a previously used unit.

Warning: Storage configuration (racks, boxes, etc. grid sizes) should not be edited once you start allocating specimens to it. Use caution when editing the child unit grid. If dimensions were modified, the edits for the existing child units will be removed. For example, if a child unit is sub-divided, that sub-division would be deleted.

To edit a storage unit:

1. After searching for a storage unit on the Storage Admin tab, click **Select** under the appropriate storage unit name.



Current Page: Manage Inventory >> Storage Search

Specimens **Storage Admin** Storage Kit Library

Storage ID:

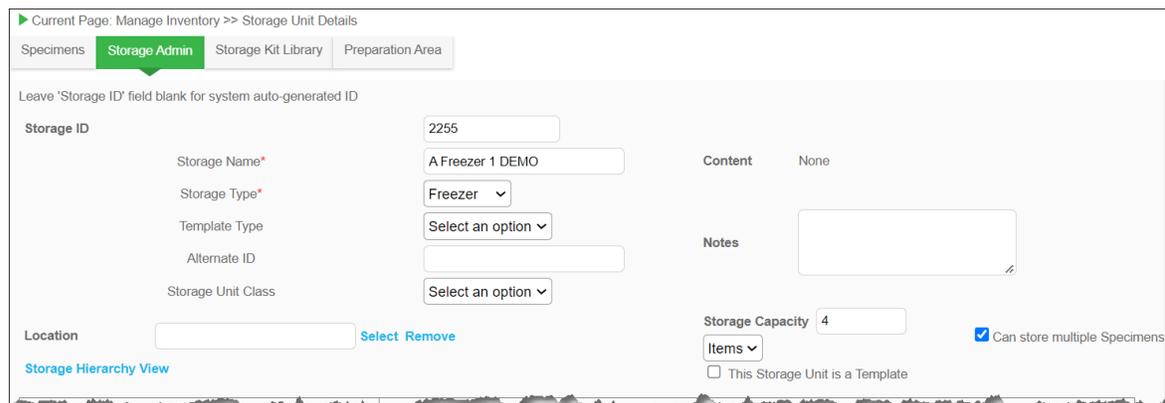
Name:

Study: [Select](#)

Barcode:

Storage Name	ID
A Freezer 1 DEMO	2255
	Select

The Storage Unit Details for the selected Storage displays:



Current Page: Manage Inventory >> Storage Unit Details

Specimens **Storage Admin** Storage Kit Library Preparation Area

Leave 'Storage ID' field blank for system auto-generated ID

Storage ID:

Storage Name*:

Storage Type*:

Template Type:

Alternate ID:

Storage Unit Class:

Content: None

Notes:

Location: [Select](#) [Remove](#)

Storage Capacity: Can store multiple Specimens

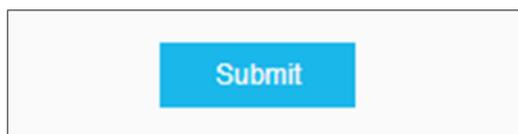
[Storage Hierarchy View](#)

Items

This Storage Unit is a Template

Warning: Use caution when editing the child unit grid. If dimensions were modified, the edits for the existing child units will be removed. For example, if a child unit has a child, that child will be deleted.

2. Modify as needed and click **Submit** to confirm.



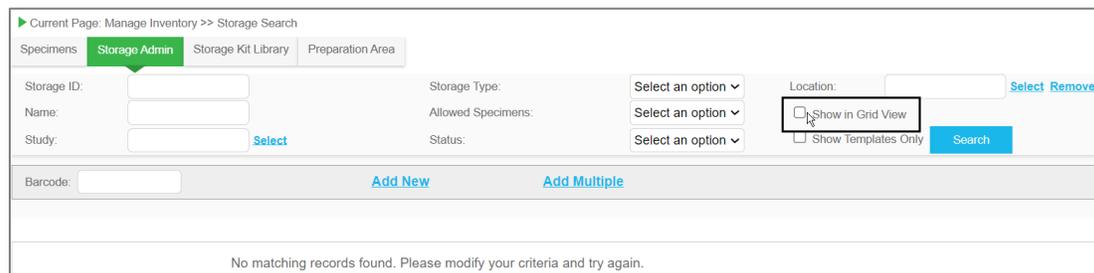
2.3.3 Delete a Storage Unit

When deletion is required, due to retirement or any other reason, storage units may be deleted in the system. The steps begin from the Storage Search page of the Storage Admin tab.

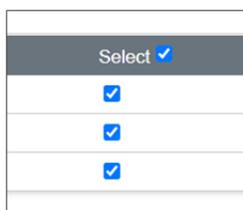
Warning: If a parent storage is deleted, all children get deleted. If storage has specimens, you get a message: "The selected Storage Unit(s) cannot be changed. There are one or more storage or child storage records linked with specimen(s). Please remove the association with the related specimen records and try again later."

To delete a storage unit:

1. From the Storage Admin tab, use the search filters to search for the appropriate storage unit and uncheck the checkbox for **Show in Grid View**.



2. From the search results, click the checkbox for the unit you want to delete.



Note: If you delete a parent or top-level storage, the whole storage unit can be deleted. This will only work for empty storage units

3. Click **Delete**.

Print Label	Delete	Copy Storage Unit/Template
Capacity ▾	Status ▾	Select <input type="checkbox"/>
4 Items	Available	<input checked="" type="checkbox"/>

A confirm deletion window opens:

veltraining.veloseresearch.com says

This action will also delete all the child storages linked with the selected storage unit(s). Are you sure you want to continue?

4. Click **OK**, then enter your e-Signature and click **Submit**.

Valid e-Sign e-Signature *

2.3.4 Print Storage Unit Label

When creating storage units, labels can be printed to aid in identification of the unit. The steps begin from the Storage Search page of the Storage Admin tab.

To print a storage unit label:

1. From the Storage Admin tab, use the search filters to search for the appropriate storage unit and **uncheck** the checkbox for **Show in Grid View**.

Current Page: Manage Inventory >> Storage Search

Specimens **Storage Admin** Storage Kit Library Preparation Area

Storage ID: Storage Type: Location:

Name: Allowed Specimens: Show in Grid View

Study: Status: Show Templates Only

Barcode:

No matching records found. Please modify your criteria and try again.

2. From the search results, click the checkbox for the unit you want to print a label for.

Select <input type="checkbox"/>
<input type="checkbox"/>
<input checked="" type="checkbox"/>
<input type="checkbox"/>

3. Click **Print Label**.

Print Label	Delete	Copy Storage Unit/Template
Capacity ▾	Status ▾	Select <input type="checkbox"/>
4 Items	Available	<input checked="" type="checkbox"/>

4. The Generate Bar Code window opens where you can choose a template and click **Go**.

Choose a Template Storage 3x2 ▾ Go [View Available Keywords](#)

The Barcode is Generated and may be printed:



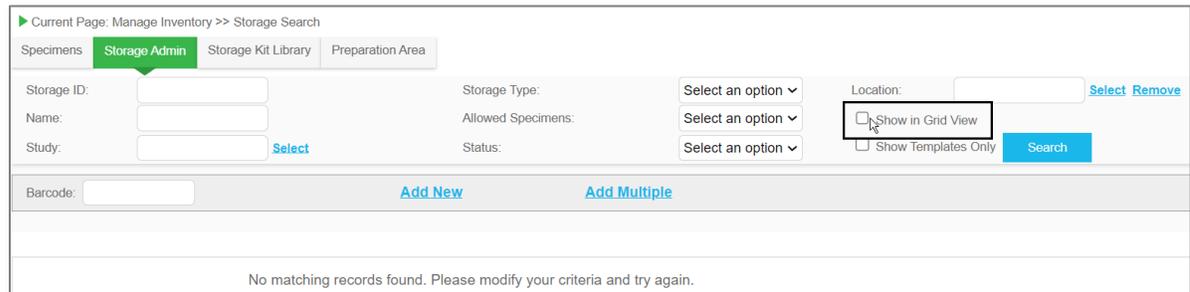
Note: Actual barcode size is approximately one inch. Please reach out to your Account Manager if you would need additional templates for labels.

2.3.5 Update Status for Multiple Units

The Update Status link on the Storage Admin page allows permissioned users to update multiple Storage Unit statuses at one time.

To update multiple Storage statuses at once:

1. From the Storage Admin tab, use the search filters to search for the appropriate storage unit and **uncheck** the checkbox for **Show in Grid View**.



Current Page: Manage Inventory >> Storage Search

Specimens: **Storage Admin** | Storage Kit Library | Preparation Area

Storage ID: Storage Type: Location: [Select](#) [Remove](#)

Name: Allowed Specimens:

Study: [Select](#) Status:

Show in Grid View

Show Templates Only [Search](#)

Barcode: [Add New](#) [Add Multiple](#)

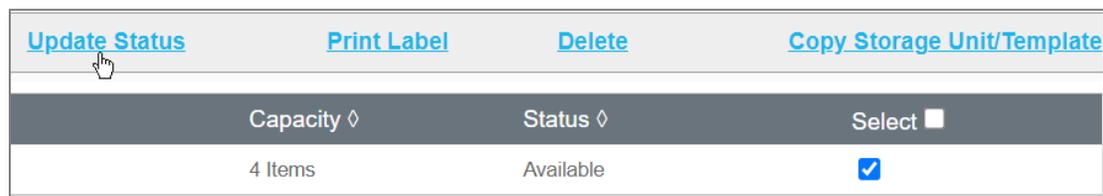
No matching records found. Please modify your criteria and try again.

2. From the search results, click the checkboxes for the units you want to update a status for.



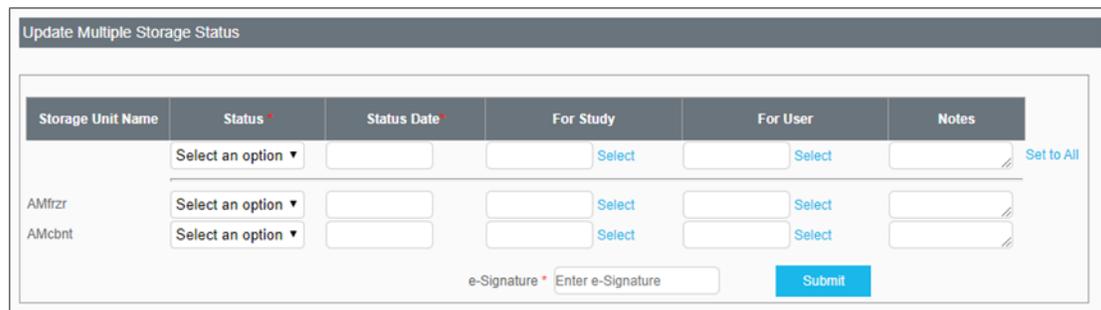
Select
<input type="checkbox"/>
<input checked="" type="checkbox"/>
<input type="checkbox"/>

3. Click **Update Status**.



Update Status	Print Label	Delete	Copy Storage Unit/Template
Capacity \diamond	Status \diamond		Select <input type="checkbox"/>
4 Items	Available		<input checked="" type="checkbox"/>

The Update Multiple Storage Status window opens:



Storage Unit Name	Status *	Status Date *	For Study	For User	Notes
	<input type="text" value="Select an option"/>	<input type="text"/>	<input type="text"/> Select	<input type="text"/> Select	<input type="text"/> Set to All
AMfzr	<input type="text" value="Select an option"/>	<input type="text"/>	<input type="text"/> Select	<input type="text"/> Select	<input type="text"/>
AMcbnt	<input type="text" value="Select an option"/>	<input type="text"/>	<input type="text"/> Select	<input type="text"/> Select	<input type="text"/>

e-Signature * [Submit](#)

4. Enter data in each field per row OR use the top Power Bar fields to enter data, which will update the additional column fields, and then click **Set to All**.

5. Enter your e-Signature and click **Submit** to confirm.

Valid e-Sign

e-Signature *
••••

Submit

2.3.6 Add Multiple Storage Units

The Add Multiple link allows permitted users to create multiple storage units at once from the Storage Admin tab.

To add multiple storage units:

1. From the Storage Admin tab, click **Add Multiple**.

Current Page: Manage Inventory >> Storage Search

Specimens
Storage Admin
Storage Kit Library
Preparation Area

Storage ID:

Name:

Study: [Select](#)

Storage Type: Select an option

Allowed Specimens: Select an option

Status: Select an option

Location: [Select](#) [Remove](#)

Show in Grid View

Show Templates Only

[Search](#)

Barcode:
Add New
Add Multiple

No matching records found. Please modify your criteria and try again.

The Add Multiple Storage page displays:

Add Multiple Storage

Storage Naming Style Select an option

Please leave 'Storage ID' blank to auto generate the ID

ID	Storage Name	Storage Type	Dimension 1 # of Cells	Naming	Positioning	Dimension 2 # of Cells	Naming	Positioning	Template Type	Alternate ID	Storage Unit Class
		Select an option	1	A>ZZ	Left to Right	1	1 to n	Back to Front	Select an option		Select an option
		Select an option	1	A>ZZ	Left to Right	1	1 to n	Back to Front	Select an option		Select an option
		Select an option	1	A>ZZ	Left to Right	1	1 to n	Back to Front	Select an option		Select an option
		Select an option	1	A>ZZ	Left to Right	1	1 to n	Back to Front	Select an option		Select an option
		Select an option	1	A>ZZ	Left to Right	1	1 to n	Back to Front	Select an option		Select an option
		Select an option	1	A>ZZ	Left to Right	1	1 to n	Back to Front	Select an option		Select an option
		Select an option	1	A>ZZ	Left to Right	1	1 to n	Back to Front	Select an option		Select an option
		Select an option	1	A>ZZ	Left to Right	1	1 to n	Back to Front	Select an option		Select an option
		Select an option	1	A>ZZ	Left to Right	1	1 to n	Back to Front	Select an option		Select an option
		Select an option	1	A>ZZ	Left to Right	1	1 to n	Back to Front	Select an option		Select an option

[Submit](#)

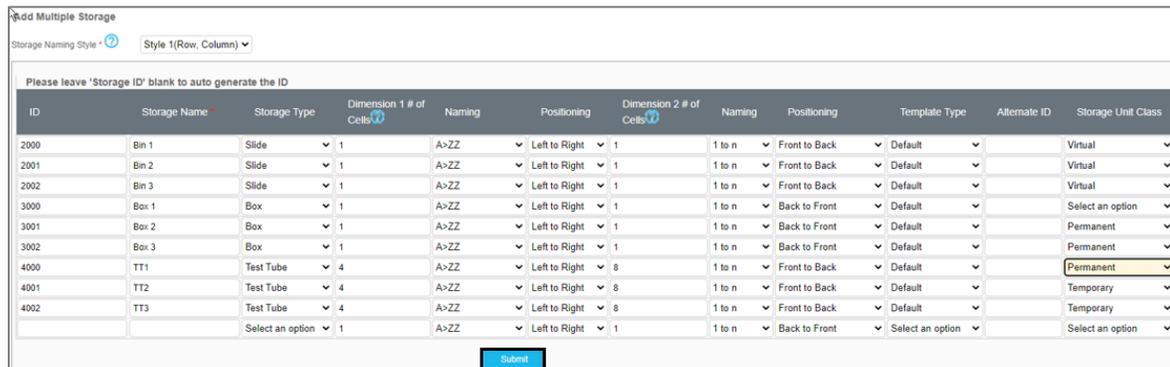
Note: Each row represents a Storage Unit, while each column represents a defining field for the corresponding row. Dimension 1 refers to number of columns and dimension 2 refers to number of rows. (Hover over question marks for more information.)

2. Define the Storage Units as appropriate.
 - a. The Storage Naming Style dropdown is required to be used to assign the style of the storages which will show storage naming by row then column or by column and then row.



Note: The style selected will apply to all storages created on the selected page and cannot be selected individually for each storage created

3. Click **Submit** to confirm.



ID	Storage Name	Storage Type	Dimension 1 # of Cells	Naming	Positioning	Dimension 2 # of Cells	Naming	Positioning	Template Type	Alternate ID	Storage Unit Class
2000	Bin 1	Slide	1	A>ZZ	Left to Right	1	1 to n	Front to Back	Default		Virtual
2001	Bin 2	Slide	1	A>ZZ	Left to Right	1	1 to n	Front to Back	Default		Virtual
2002	Bin 3	Slide	1	A>ZZ	Left to Right	1	1 to n	Front to Back	Default		Virtual
3000	Box 1	Box	1	A>ZZ	Left to Right	1	1 to n	Back to Front	Default		Select an option
3001	Box 2	Box	1	A>ZZ	Left to Right	1	1 to n	Back to Front	Default		Permanent
3002	Box 3	Box	1	A>ZZ	Left to Right	1	1 to n	Back to Front	Default		Permanent
4000	TT1	Test Tube	4	A>ZZ	Left to Right	8	1 to n	Front to Back	Default		Permanent
4001	TT2	Test Tube	4	A>ZZ	Left to Right	8	1 to n	Front to Back	Default		Temporary
4002	TT3	Test Tube	4	A>ZZ	Left to Right	8	1 to n	Front to Back	Default		Temporary
	Select an option	Select an option	1	A>ZZ	Left to Right	1	1 to n	Back to Front	Select an option		Select an option

The new storage units will appear in the Storage Admin page.

ID	Name	Type	Location	Capacity	Status	Select
2000	Bin 1	Slide		1 Items	Available	<input type="checkbox"/>
2001	Bin 2	Slide		1 Items	Available	<input type="checkbox"/>
2002	Bin 3	Slide		1 Items	Available	<input type="checkbox"/>
3000	Box 1	Box		1 Items	Available	<input type="checkbox"/>
3001	Box 2	Box		1 Items	Available	<input type="checkbox"/>
3002	Box 3	Box		1 Items	Available	<input type="checkbox"/>
4000	TT1	Test Tube		32 Items	Available	<input type="checkbox"/>
4001	TT2	Test Tube		32 Items	Available	<input type="checkbox"/>
4002	TT3	Test Tube		32 Items	Available	<input type="checkbox"/>

Note: Capacity is the calculation of Dimension 1 multiplied by Dimension 2

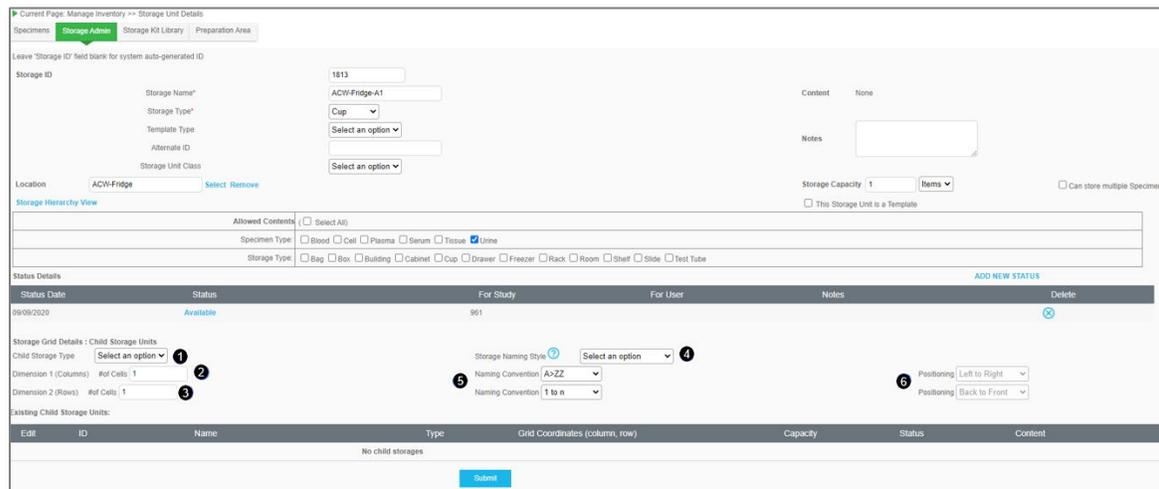
2.3.7 Child Storage Units

A storage unit can contain child storage units. Adding these child storage units will be defined in rows and columns using naming conventions that will be defined by the user from dropdown options. If adding to an existing parent storage unit, the Positioning fields will not be accessible.

Warning: If a parent storage unit has the checkbox checked for 'Can Store Multiple Specimens', or if the unit is configured as CC/mg, the system will not allow allocation of storage units to specimens through bulk upload.

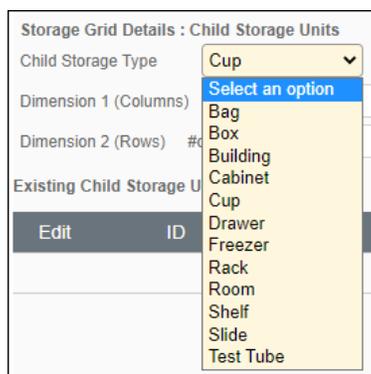
After searching for and selecting a storage unit to select as a parent storage unit, or if initially creating a storage unit, while in the Storage Admin tab:

1. Complete the Storage Grid Details: Child Storage Units fields as follows.



Follow the steps below to complete the Child Storage Units as numbered above.

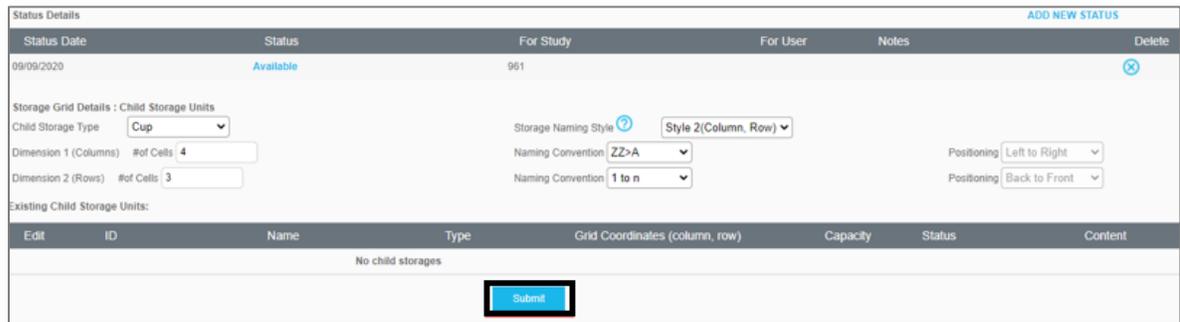
1. Select the type of Child Storage Type from the dropdown.



2. Enter the number of columns in the Dimension 1 (Columns) # of Cells field.
3. Enter the number of rows in the Dimension 2 (Rows) # of Cells field.
4. In the Storage Naming Style field, select either Style 1(Row, Column) or Style 2(Column, Row), to define whether rows or columns will appear in the resulting grid first.
5. In the Naming Convention fields, select either A>ZZ, ZZ>A, 1 to n, or n to 1, to define the direction in which the child specimens will be located in the grid and parent storage unit, for the columns and then rows.
6. In the Positioning fields, select Left to Right or Right to Left for columns and then Back to Front or Front to Back for rows.

Note: Positioning Fields are not accessible if adding to an existing specimen. These fields are only accessible when creating a new specimen

2. After defining the fields, click **Submit**.



Status Details ADD NEW STATUS

Status Date	Status	For Study	For User	Notes	Delete
09/09/2020	Available	961			

Storage Grid Details : Child Storage Units

Child Storage Type:

Storage Naming Style:

Dimension 1 (Columns) #of Cells:

Dimension 2 (Rows) #of Cells:

Naming Convention:

Naming Convention:

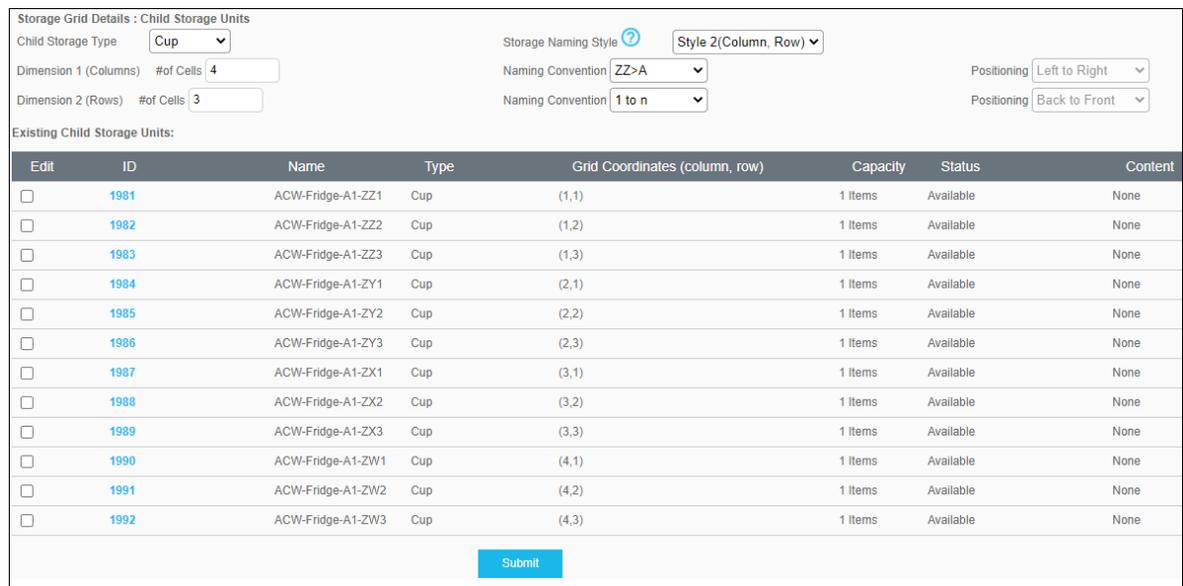
Positioning:

Positioning:

Existing Child Storage Units:

Edit	ID	Name	Type	Grid Coordinates (column, row)	Capacity	Status	Content
No child storages							

3. The selections will appear in a grid / tabular format.



Storage Grid Details : Child Storage Units

Child Storage Type:

Storage Naming Style:

Dimension 1 (Columns) #of Cells:

Dimension 2 (Rows) #of Cells:

Naming Convention:

Naming Convention:

Positioning:

Positioning:

Existing Child Storage Units:

Edit	ID	Name	Type	Grid Coordinates (column, row)	Capacity	Status	Content
<input type="checkbox"/>	1981	ACW-Fridge-A1-ZZ1	Cup	(1,1)	1 Items	Available	None
<input type="checkbox"/>	1982	ACW-Fridge-A1-ZZ2	Cup	(1,2)	1 Items	Available	None
<input type="checkbox"/>	1983	ACW-Fridge-A1-ZZ3	Cup	(1,3)	1 Items	Available	None
<input type="checkbox"/>	1984	ACW-Fridge-A1-ZY1	Cup	(2,1)	1 Items	Available	None
<input type="checkbox"/>	1985	ACW-Fridge-A1-ZY2	Cup	(2,2)	1 Items	Available	None
<input type="checkbox"/>	1986	ACW-Fridge-A1-ZY3	Cup	(2,3)	1 Items	Available	None
<input type="checkbox"/>	1987	ACW-Fridge-A1-ZX1	Cup	(3,1)	1 Items	Available	None
<input type="checkbox"/>	1988	ACW-Fridge-A1-ZX2	Cup	(3,2)	1 Items	Available	None
<input type="checkbox"/>	1989	ACW-Fridge-A1-ZX3	Cup	(3,3)	1 Items	Available	None
<input type="checkbox"/>	1990	ACW-Fridge-A1-ZW1	Cup	(4,1)	1 Items	Available	None
<input type="checkbox"/>	1991	ACW-Fridge-A1-ZW2	Cup	(4,2)	1 Items	Available	None
<input type="checkbox"/>	1992	ACW-Fridge-A1-ZW3	Cup	(4,3)	1 Items	Available	None

2.3.7.1 Edit Child Storage Units

Children Storage Units can be edited after creation in either the Storage Unit Grid or for an existing Child Storage Unit individually.

To edit an individual existing child storage unit from the Storage Grid Details: Child Storage Units section for a parent storage unit selected:

1. Add a checkmark in the Edit column, change the name in the Name column and/or change the selection in the Type column, and click **Submit**.

Storage Grid Details : Child Storage Units

Child Storage Type: Storage Naming Style:

Dimension 1 (Columns) #of Cells: Naming Convention: Positioning:

Dimension 2 (Rows) #of Cells: Naming Convention: Positioning:

Existing Child Storage Units:

Edit	ID	Name	Type	Grid Coordinates (column, row)	Capacity	Status	Content
<input checked="" type="checkbox"/>	1981	ACW-Fridge-A1-ZZ1	Cup	(1,1)	1 Items	Available	None
<input type="checkbox"/>	1982	ACW-Fridge-A1-ZZ2	Cup	(1,2)	1 Items	Available	None
<input type="checkbox"/>	1983	ACW-Fridge-A1-ZZ3	Cup	(1,3)	1 Items	Available	None
<input type="checkbox"/>	1992	ACW-Fridge-A1-ZW3	Cup	(4,3)	1 Items	Available	None

Changes submitted will appear in the grid.

Existing Child Storage Units:

Edit	ID	Name	Type
<input type="checkbox"/>	1981	ACW-Fridge-A1-ZZ1	Box

To edit the storage grid details for the entire grid:

1. Change any fields in the area between the Storage Grid Details: Child Storage Units area, then click **Submit**.

Storage Grid Details : Child Storage Units

Child Storage Type: Storage Naming Style:

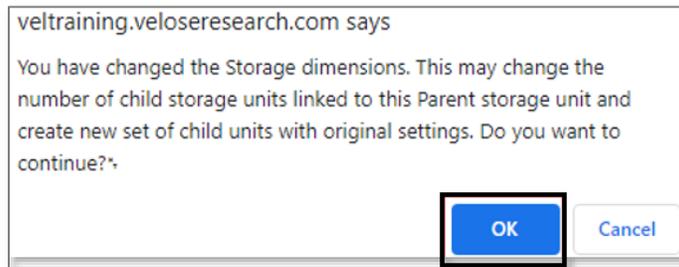
Dimension 1 (Columns) #of Cells: Naming Convention: Positioning:

Dimension 2 (Rows) #of Cells: Naming Convention: Positioning:

Existing Child Storage Units:

Edit	ID	Name	Type	Grid Coordinates (column, row)	Capacity	Status	Content
<input type="checkbox"/>	1992	ACW-Fridge-A1-ZW3	Cup	(4,3)	1 Items	Available	None

A message will appear.



2. Click **OK** to confirm the change.

The change will be reflected in the grid, as shown in the example below.

Storage Grid Details : Child Storage Units

Child Storage Type Storage Naming Style

Dimension 1 (Columns) #of Cells Naming Convention Positioning

Dimension 2 (Rows) #of Cells Naming Convention Positioning

Existing Child Storage Units:

Edit	ID	Name	Type	Grid Coordinates (column, row)	Capacity	Status	Content
<input type="checkbox"/>	1993	ACW-Fridge-A1-ZZ1	Cup	(1,1)	1 Items	Available	None
<input type="checkbox"/>	1994	ACW-Fridge-A1-ZZ2	Cup	(1,2)	1 Items	Available	None
<input type="checkbox"/>	1995	ACW-Fridge-A1-ZY1	Cup	(2,1)	1 Items	Available	None
<input type="checkbox"/>	1996	ACW-Fridge-A1-ZY2	Cup	(2,2)	1 Items	Available	None
<input type="checkbox"/>	1997	ACW-Fridge-A1-ZX1	Cup	(3,1)	1 Items	Available	None
<input type="checkbox"/>	1998	ACW-Fridge-A1-ZX2	Cup	(3,2)	1 Items	Available	None
<input type="checkbox"/>	1999	ACW-Fridge-A1-ZW1	Cup	(4,1)	1 Items	Available	None

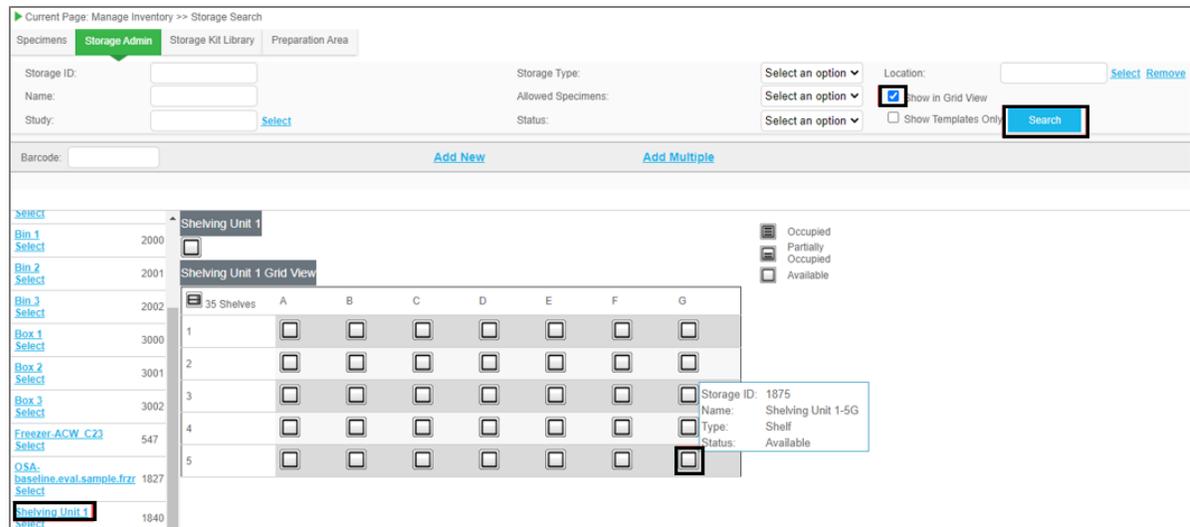
Note: Refer to the steps in the next section to view the grid view for the new child specimens.

2.3.7.2 Search and View in Grid View

A parent storage unit with child storage units can be viewed in a grid view after searching. A child storage unit may be accessed from the grid in the search view. After a child storage unit's status is updated, the parent storage unit's grid will update to show Occupied, Partially Occupied, or Available, as per the icons shown in the search view.

After searching in grid view for a storage unit:

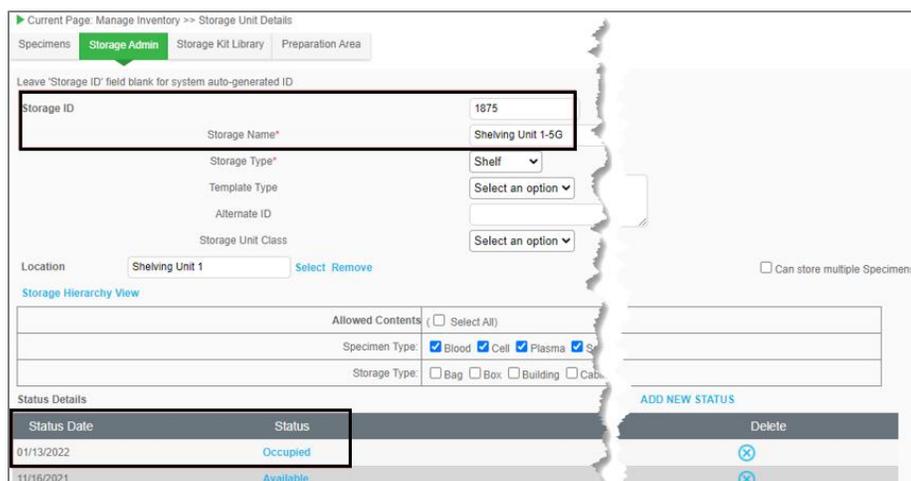
1. Click a storage unit name to view the grid view.



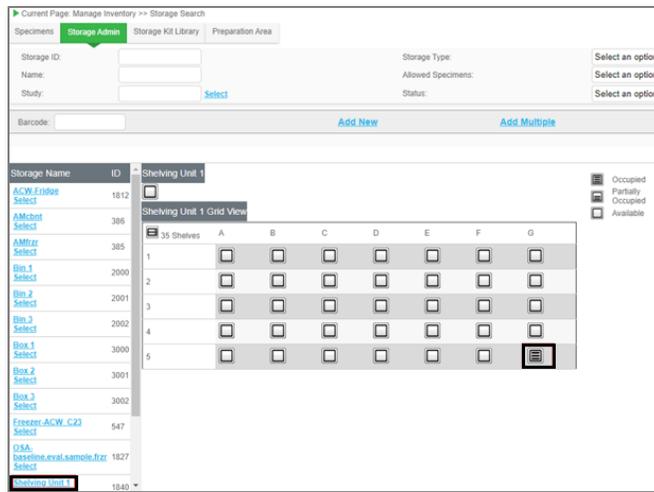
- The example above shows a parent storage unit, titled Shelving Unit 1, with the G5 child storage unit hovered over to show details. The details show that this child storage unit is Storage ID 1875 with name Shelving Unit 1-5G, as defined in the dimensions for the child storage grid. This and all child storage units in this parent storage unit are currently available.

2. Click a square in the grid to access a child storage unit.

- a. Update data as needed. In the example below, a new status of Occupied has been added for the child storage unit in the Status Details section.

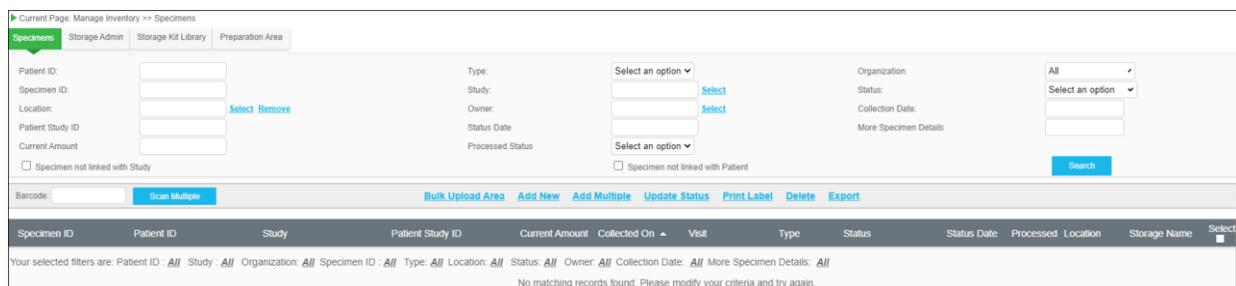


Returning to the parent storage unit view, as outlined in step 1 above, now shows that the child storage unit has the status of Occupied.



2.4 Specimen Management

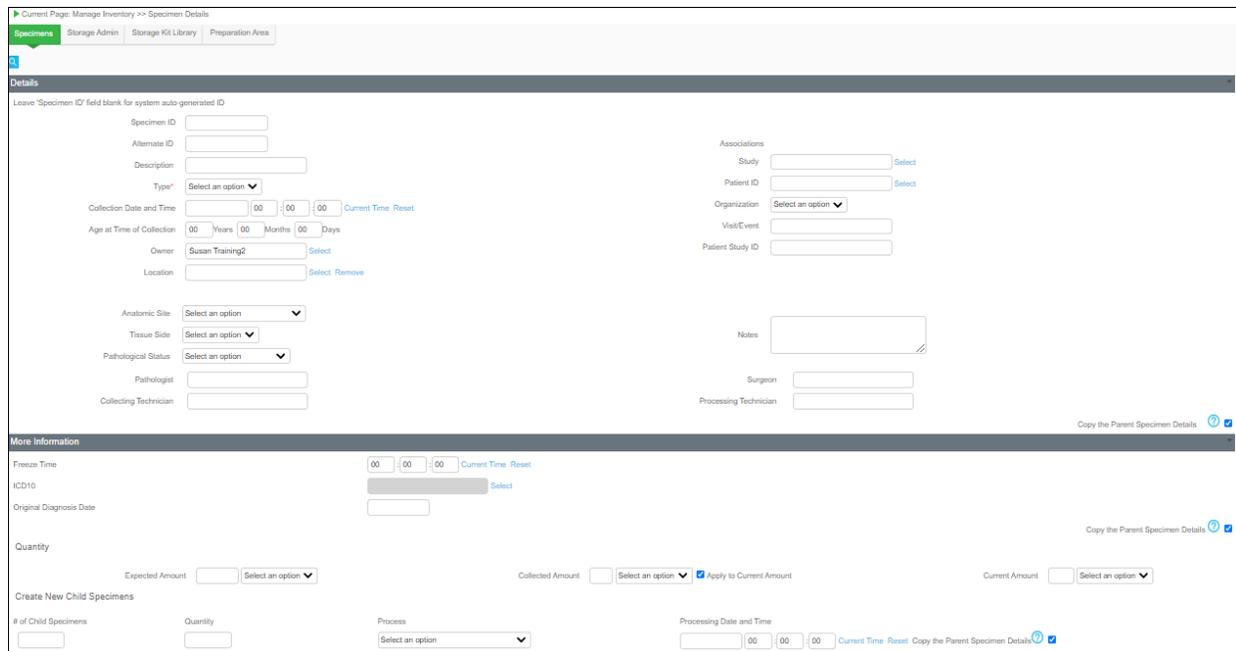
The Specimens tab allows permitted users to manage or modify specimens. From the Specimens tab, users can search using the available fields or use the links to Bulk Upload Area, Add New, Add Multiple, Update Status, Print Label, Delete, and Export. Specimens can also be located on the Specimens tab for a Patient Record, if the specimen is associated with the Patient Record. **Refer to the Patient Management>Patient Search section in the eResearch User Guide**, for more information.



Note: The More Specimen Details search field is used to search for data added for a specimen in the Specimen Details page from the section titled More Information, such as ICD10 data.

2.4.1 Specimen Details Overview

The Specimen Details page lists the characteristics for a specimen. Here, users can create and define a specimen entry using the available fields. The characteristics of a specimen are divided into sections. The default sections are Details and More Information.



The screenshot displays the 'Specimen Details' page with the following sections and fields:

- Details Section:**
 - Specimen ID:
 - Alternate ID:
 - Description:
 - Type:
 - Collection Date and Time: [Current Time](#) [Reset](#)
 - Age at Time of Collection: years months days
 - Owner: [Select](#)
 - Location: [Select](#) [Remove](#)
 - Anatomic Site:
 - Tissue Side:
 - Pathological Status:
 - Pathologist:
 - Collecting Technician:
 - Associations:
 - Study: [Select](#)
 - Patient ID: [Select](#)
 - Organization:
 - Visit/Event:
 - Patient Study ID:
 - Notes:
 - Surgeon:
 - Processing Technician:
- More Information Section:**
 - Freeze Time: [Current Time](#) [Reset](#)
 - ICD10: [Select](#)
 - Original Diagnosis Date:
 - Quantity:
 - Expected Amount:
 - Collected Amount: [Apply to Current Amount](#)
 - Current Amount:
 - Create New Child Specimens:**
 - # of Child Specimens:
 - Quantity:
 - Process:
 - Processing Date and Time: [Current Time](#) [Reset](#)

Note: The Visit/Event field may include the Visit/Event associated to the specimen as well as a See Patient Schedule link, which will bring the user to the visit and event for the specimen in the Patient Schedule.

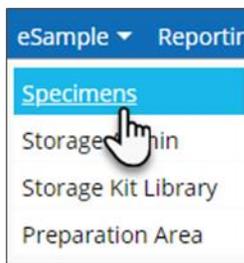
Visit/Event Initial Visit /Baseline Evaluation [See Patient Schedule](#)

2.4.2 Create Specimen

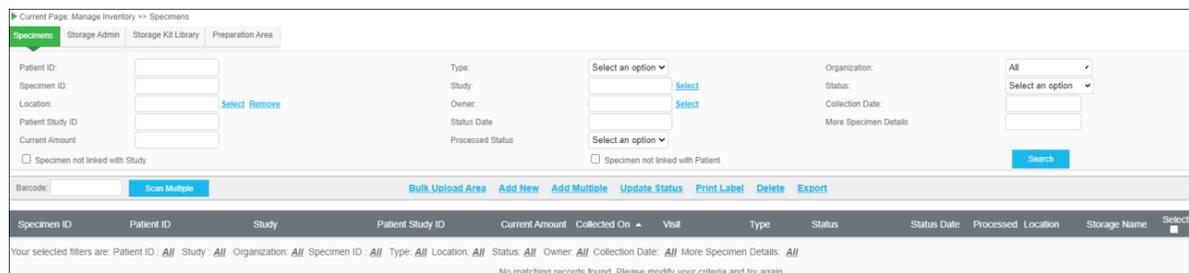
Specimens can be created for use during manual creation of specimens. Specimens can also be located on the Specimens tab for a Patient Record, if the specimen is associated with the Patient Record. *Refer to the Patient Management>Patient Search section in the eResearch User Guide*, for more information.

To create a new Specimen:

1. From the navigation bar, click the **eSample** tab and select **Specimens**.



The Specimens tab displays:



Current Page: Manage Inventory >> Specimens

Specimens Storage Admin Storage Kit Library Preparation Area

Patient ID: Type: Select an option Organization: All

 Specimen ID: Study: Select Status: Select an option

 Location: Select Remove Owner: Select Collection Date:

 Patient Study ID: Status Date: More Specimen Details:

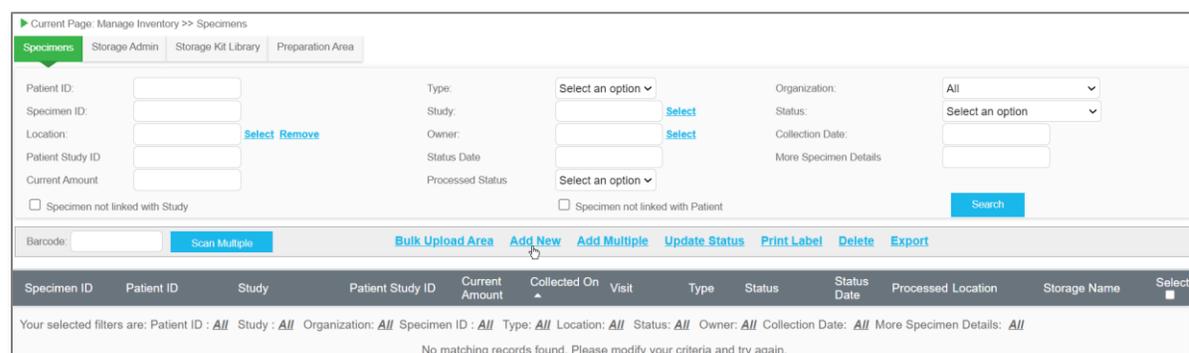
 Current Amount: Processed Status: Select an option

 Specimen not linked with Study Specimen not linked with Patient

Barcode:

Specimen ID	Patient ID	Study	Patient Study ID	Current Amount	Collected On	Visit	Type	Status	Status Date	Processed	Location	Storage Name	Select
Your selected filters are: Patient ID : All Study : All Organization : All Specimen ID : All Type : All Location : All Status : All Owner : All Collection Date : All More Specimen Details : All													
No matching records found. Please modify your criteria and try again.													

2. Click **Add New**.



Current Page: Manage Inventory >> Specimens

Specimens Storage Admin Storage Kit Library Preparation Area

Patient ID: Type: Select an option Organization: All

 Specimen ID: Study: Select Status: Select an option

 Location: Select Remove Owner: Select Collection Date:

 Patient Study ID: Status Date: More Specimen Details:

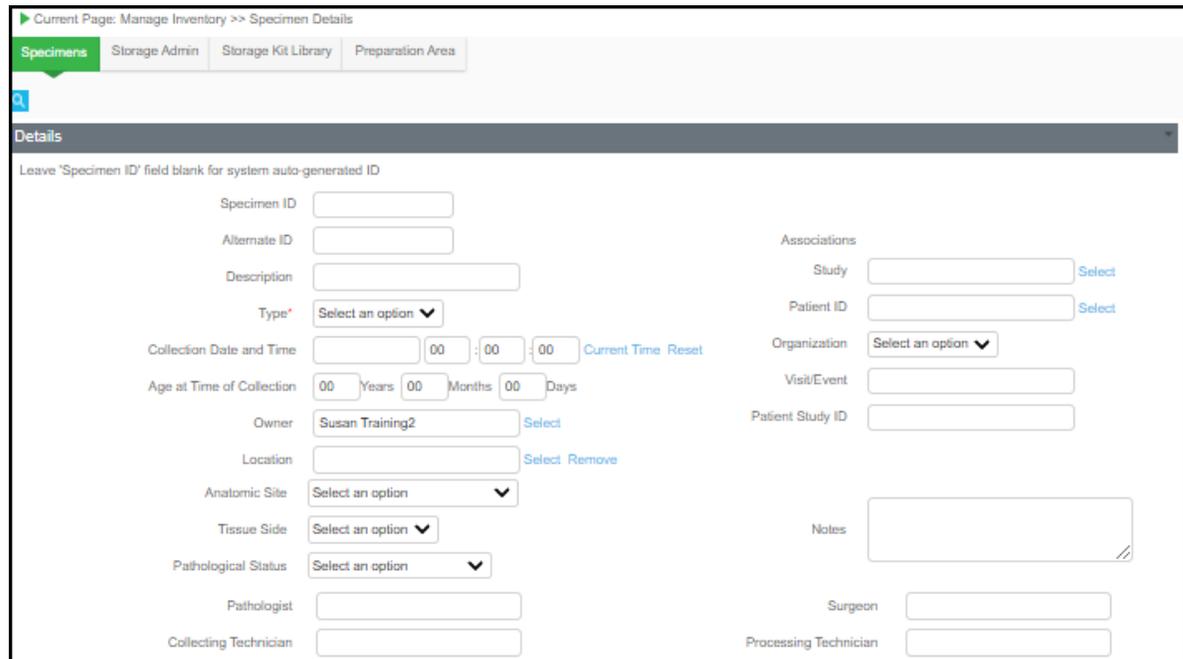
 Current Amount: Processed Status: Select an option

 Specimen not linked with Study Specimen not linked with Patient

Barcode:

Specimen ID	Patient ID	Study	Patient Study ID	Current Amount	Collected On	Visit	Type	Status	Status Date	Processed	Location	Storage Name	Select
Your selected filters are: Patient ID : All Study : All Organization : All Specimen ID : All Type : All Location : All Status : All Owner : All Collection Date : All More Specimen Details : All													
No matching records found. Please modify your criteria and try again.													

The Specimen Details page displays:



Here users may define the Specimen as appropriate using the available fields. Fields marked with a red asterisk (*) are required fields. For details of the available fields, please refer to the table below:

Section	Field	Description
Details	Specimen ID	ID for collected Specimen. If left blank, the field will auto generate.
	Alternate ID	Alternative ID for collected Specimen.
	Description	Enter a brief description for the Specimen.
	Type	Select a Type form the dropdown options.
	Collection Date and Time	Date and Time of Specimen collection.
	Age at Time of Collection	Auto-calculates based from the patient birth date to the collection date and time of the sample in Years, Months, and Days.
	Owner	User responsible for Specimen. Use "Select" to select available users in the system. The default user will be the user that is signed in and opened the Add New Specimen link.
	Location	Select or Remove the Storage Location, selecting from the various storage types.

Section	Field	Description
	Anatomic Site	Anatomic site from where the specimen was obtained.
	Tissue Site	Based on the option selected in the Anatomic Site field, select the Tissue Site for the Specimen.
	Pathological Status	Select the Pathological Status from the dropdown options.
	Pathologist	Field for entering the Pathologist. This field will search via available users in the system.
	Collecting Technician	Enter the Specimen Collecting Technician. This field will search via available users in the system.
	Associations Study	Select a Study to associate the Specimen to. Only one study may be selected for an entered Specimen. The link will list studies to select and is based on user study access.
	Patient ID	Use the Select link to select a patient record to associate the Specimen. The link will list the patient population the user has access to. The list is not linked to the selected study if one was specified.
	Organization	Select an Organization from the dropdown options.
	Visit/Event	Enter the appropriate calendar Visit/Event for the collection of the Specimen.
	Patient Study ID	Enter the Patient Study ID.
	Notes	Enter any notes, if appropriate regarding the collected Specimen.
	Surgeon	Enter the Surgeon in the field.
	Processing Technician	Enter the Processing Technician in the available field.
More Information	Freeze Time	Enter the Time, click Current Time, or Reset the field.
	ICD10	Enter the ICD10 (International Statistical Classification of Diseases and Related Health Problems).
	Original Diagnosis Date	Enter the date of the original diagnosis.
Quantity	Expected Amount	Enter a numeric measurement in the text field and select the measurement unit using the dropdown menu. This field is mandatory if a collected amount is specified. Additionally, this field is only used when creating a new specimen.

Section	Field	Description
	Collected Amount	Enter a numeric measurement in the text field and select the measurement unit using the dropdown menu. Use the checkbox to select if you wish to Apply to Current Amount. By default, the checkbox is checked.
	Current Amount	Enter a numeric measurement in the text field and select the measurement unit using the dropdown menu. This field is read only and gets populated if “Apply to Current Amount” is checked or through a selected status.
Create New Child Specimens	# of Child Specimens	Enter number. This field is not available to new users creating a new item and is used when managing or modifying previously created specimens.
	Quantity	Enter the quantity. This field is not available to new users creating a new item and is used when managing or modifying previously created specimens.
	Process	Use the dropdown options to select the appropriate process. This field is not available to new users creating a new item and is used when managing or modifying previously created specimens.
	Processing Date and Time	Enter the appropriate processing date and time. This field is not available to new users creating a new item and is used when managing or modifying previously created specimens.

Note: Visit/Event and Patient Study ID fields are auto-populated and are read only fields. These fields are populated when using a storage kit-based sample collection for a study.

- Enter information as appropriate to define the Specimen, enter your e-Signature, and click **Submit** to confirm.



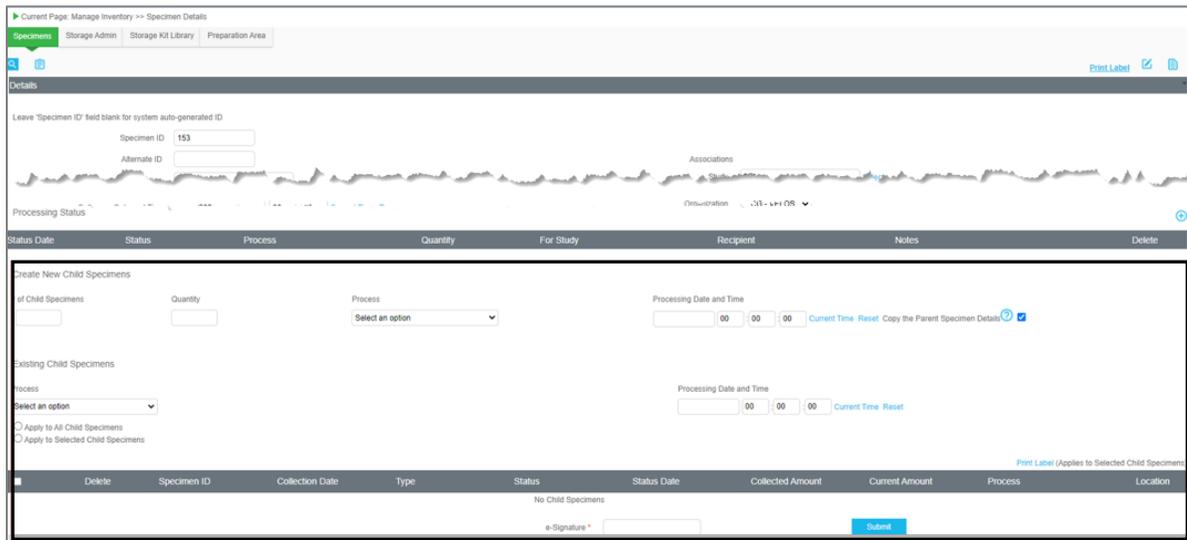
2.4.2.1 Child Specimens

After a specimen is created or while creating a new specimen, child specimen records can be added. Children records are used when an extracted specimen is further divided into additional specimens for use and / or storage. After adding child specimens, labels can be printed, they can be deleted, more access details can be accessed, and they can be edited.

Note: The Current Amount of a specimen must be populated to create child specimens.

While creating a new specimen, or after a specimen record has been added, to add child specimen records:

1. Navigate to the Create New Child Specimens area of the Specimen Details page.



2. Enter the # of Child Specimens and the Quantity that each will contain in the open text fields.

Create New Child Specimens

# of Child Specimens	Quantity
<input style="width: 80%;" type="text"/>	<input style="width: 80%;" type="text"/>

Note: The Quantity field may auto-populate based on the Current Amount divided by the # of Child Specimens entered. This number may be manually adjusted.

3. Select an option from the Process dropdown.

Process

Select an option ▼

Aliquot

Section

Smear

Formalin-fixed

Formalin-fixed and paraffin-embedded

Select an option

- Enter a processing date, using a date picker after clicking in the first field, and enter a time in minutes, hours, and seconds, or select **Current Time** to select the current time.



- Use Reset if needed to reset the time.
- Uncheck the default checked checkbox if the parent specimen details are NOT to be copied.
 - Enter your e-Signature and click **Submit**.



The child specimens will appear in a table at the bottom of the parent specimen page.



Delete	Specimen ID	Collection Date	Analysis Date	Collected Amount	Current Amount	Process	Location
<input checked="" type="checkbox"/>	153-1	08/14/2021	2022	15.0 Millilitre	15.0 Millilitre	Aliquot	
<input checked="" type="checkbox"/>	153-2	08/14/2021	2022	15.0 Millilitre	15.0 Millilitre	Aliquot	
<input checked="" type="checkbox"/>	153-3	08/14/2021	2022	15.0 Millilitre	15.0 Millilitre	Aliquot	

- If a child specimen requires deleting, click **Delete** in the Delete column and click **OK** in the warning pop-up
- To access the Specimen Details page for a child specimen, click a Specimen ID
- To print labels, check one or more checkboxes and click the **Print Label** link

Note: When a checkbox is checked for one or more child specimens, a power bar will open above the table.

7. Check one or more checkboxes to edit one or more child specimens. The checkbox in the navigation bar will select all specimens.



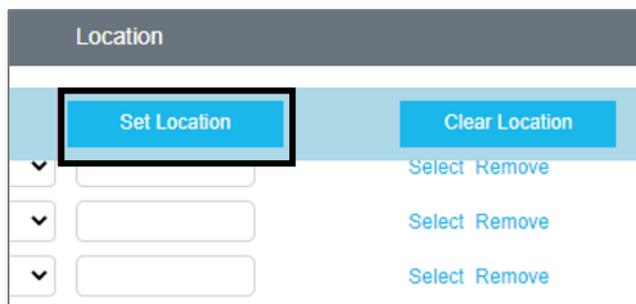
8. Update each field individually or update a field or fields in the Power Bar.



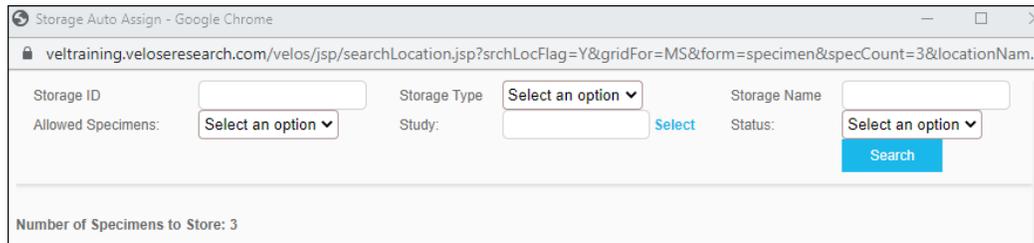
- Collection Data and Status Date are date fields
- Type and Status are dropdown fields
- All child specimens can be deleted here at one time by clicking the **Delete** button

Warning: Use caution when deleting child specimens because they cannot be recovered.

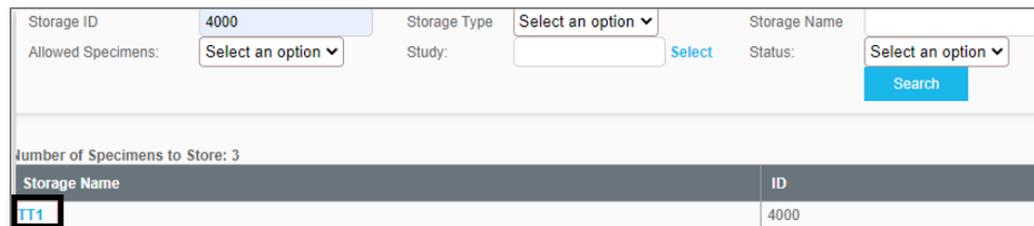
- a. If setting a location for all specimens, click **Set Location**.



- b. In the pop-up, enter criteria to search for a storage unit and click **Search**.

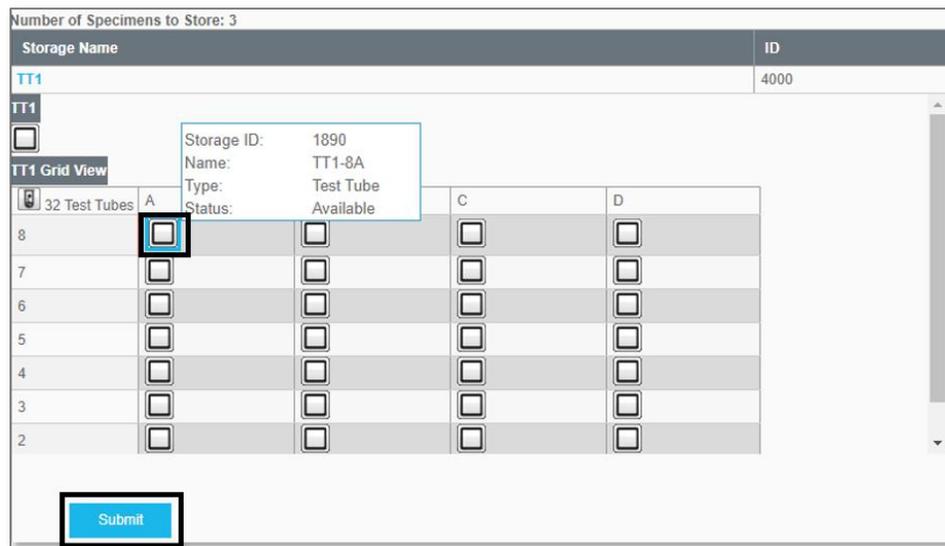


- c. Select from the resulting options in the new table by clicking on a Storage Name.



Storage Name	ID
TT1	4000

- d. In the new storage grid, click on a box to select where the specimen(s) will be stored.



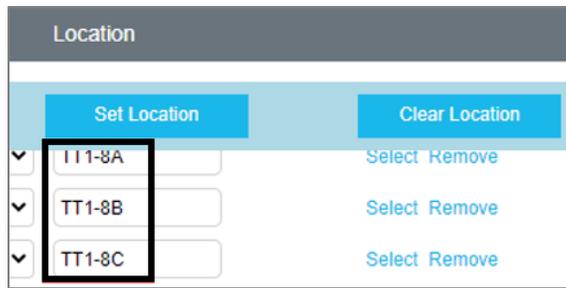
Storage Name		ID
TT1		4000

32 Test Tubes		A	C	D
8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note: When selecting a storage grid square, multiple child specimens will be assigned the child storage locations from left to right and top to bottom, automatically. For example, in the image above, the child storage locations will be assigned in 8A, then 8B, then 8C for the three child specimens. Adding more specimens would assign them as 8C, then 8D, then 7A, 7B and so on.

- e. Click **Submit**.

- f. The new child specimens with new child storage locations will be assigned and appear in the table.



- If locations need to be removed at any time, after checkboxes are checked for the child specimens, click **Clear** Location to remove
- To view or edit a child specimen storage location from this table, click **Select** for the Specimen under the Clear Location button and then re-assign in the pop-up
- To remove the child specimen storage location, click **Remove** for the Specimen under the Clear Location button and click **OK** in the warning pop-up

9. After making all changes in the Power Bar, to the child specimens, enter your e-Signature and click **Submit**.



The changes will appear in the table.

	Delete	Specimen ID	Collection Date	Type	Status	Status Date	Collected Amount	Current Amount	Process	Location
<input type="checkbox"/>	<input checked="" type="checkbox"/>	153-1	01/13/2022	Urine	Processed	01/13/2022	15.0 Millilitre	15.0 Millilitre	Aliquot	TT1-8A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	153-2	01/13/2022	Urine	Processed	01/13/2022	15.0 Millilitre	15.0 Millilitre	Aliquot	TT1-8B
<input type="checkbox"/>	<input checked="" type="checkbox"/>	153-3	01/13/2022	Urine	Processed	01/13/2022	15.0 Millilitre	15.0 Millilitre	Aliquot	TT1-8C

10. Alternatively, for the fields of Process and Processing Date and Time, all or only selected child specimens can be updated in the Existing Child Specimens area above the table.

11. Update the Process from the dropdown below Process and / or update the Date and Time as described previously in this section, then select a radio button for either: Apply to All Child Specimens or Apply to Selected Child Specimens.

Existing Child Specimens

Process: Select an option

Processing Date and Time: : : Current Time [Reset](#)

Apply to All Child Specimens
 Apply to Selected Child Specimens

<input type="checkbox"/>	Delete	Specimen ID	Collection Date	Type	Status	Status Date	Collected Amount	Current Amount	Process	Location
<input type="checkbox"/>		153-1	01/13/2022	Urine	Processed	01/13/2022	15.0 Millilitre	15.0 Millilitre	Aliquot	TT1-8A
<input type="checkbox"/>		153-2	01/13/2022	Urine	Processed	01/13/2022	15.0 Millilitre	15.0 Millilitre	Aliquot	TT1-8B
<input type="checkbox"/>		153-3	01/13/2022	Urine	Processed	01/13/2022	15.0 Millilitre	15.0 Millilitre	Aliquot	TT1-8C

e-Signature * [Submit](#)

12. Check one or more checkboxes in the table and enter your e-Signature and click **Submit**.

Existing Child Specimens

Process: Formalin-fixed

Processing Date and Time: 01/14/2022 : 12 : 00 : 00 Current Time [Reset](#)

Apply to All Child Specimens
 Apply to Selected Child Specimens

[Print Label \(Applies to Selected Child Specimens\)](#)

<input type="checkbox"/>	Delete	Specimen ID	Collection Date	Type	Status	Status Date	Collected Amount	Current Amount	Process	Location
<input type="checkbox"/>		153-1	01/13/2022	Urine	Processed	01/13/2022	15.0 Millilitre	15.0 Millilitre	Aliquot	TT1-8A
<input type="checkbox"/>		153-2	01/13/2022	Urine	Processed	01/13/2022	15.0 Millilitre	15.0 Millilitre	Aliquot	TT1-8B
<input checked="" type="checkbox"/>		153-3	01/13/2022	Urine	Processed	01/13/2022	15.0 Millilitre	15.0 Millilitre	Aliquot	TT1-8C

e-Signature * [Submit](#)

13. The data will be saved.

<input type="checkbox"/>	Delete	Specimen ID	Collection Date	Type	Status	Status Date	Collected Amount	Current Amount	Process	Location
<input type="checkbox"/>		153-1	01/13/2022	Urine	Processed	01/13/2022	15.0 Millilitre	15.0 Millilitre	Aliquot	TT1-8A
<input type="checkbox"/>		153-2	01/13/2022	Urine	Processed	01/13/2022	15.0 Millilitre	15.0 Millilitre	Aliquot	TT1-8B
<input type="checkbox"/>		153-3	01/13/2022	Urine	Processed	01/14/2022	15.0 Millilitre	15.0 Millilitre	Formalin-fixed	TT1-8C

e-Signature * [Submit](#)

Note: A Status Date cannot be changed to a date prior to the date already saved in the system.

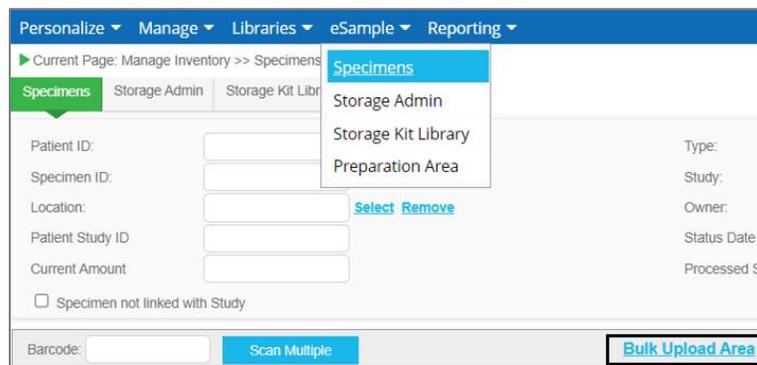
2.4.2.2 Bulk Upload of Specimen

Specimens can be created by bulk upload using an Excel spreadsheet template provided in the system. The Bulk Upload Area can be reached from either the eSample Specimens dropdown in the navigation bar or from a specific Study Patient Record's Specimen tab.

Warning: If a parent storage unit has the checkbox checked for 'Can Store Multiple Specimens', or if the unit is configured as CC/mg, the system will not allow allocation of storage units to specimens through bulk upload.

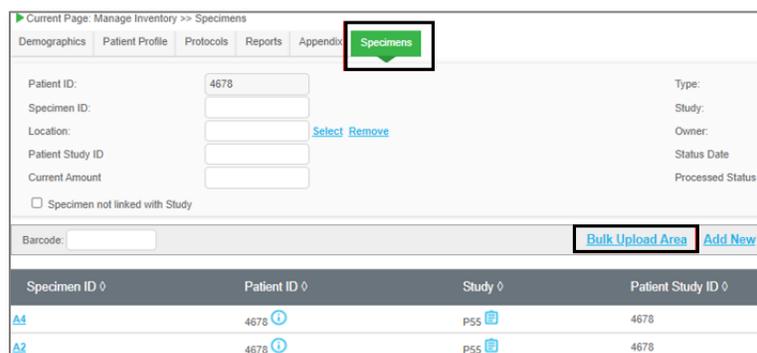
To upload a specimen or specimens by bulk upload:

1. Click **Specimens** in the **eSample** dropdown in the navigation bar and then click **Bulk Upload Area**.

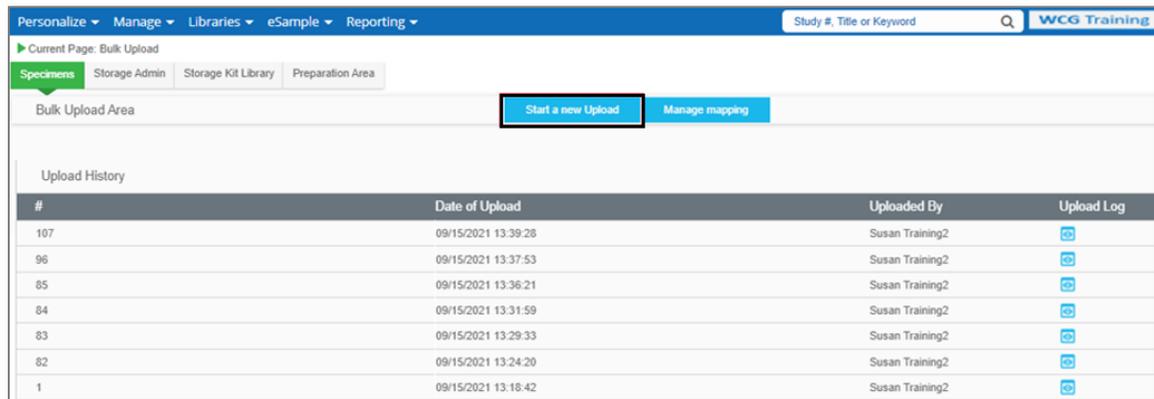


-OR-

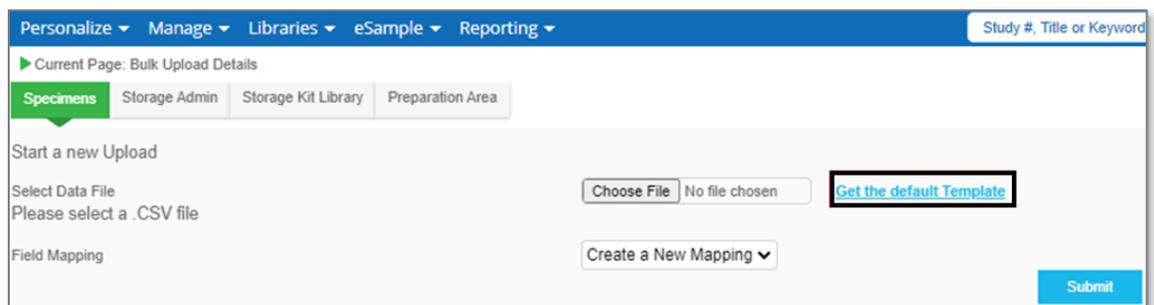
Access a Study Patient record, click the **Specimens** tab, and then click **Bulk Upload Area**. Refer to the *Patient Management>Patient Search* section in the *eResearch User Guide*, for more information.



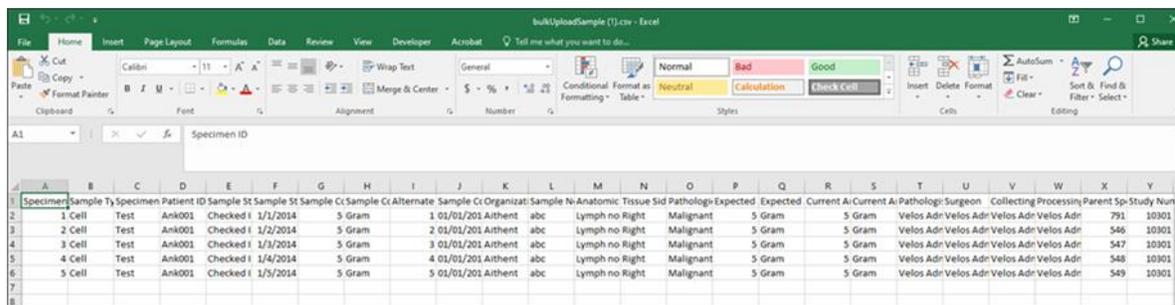
- Click **Start a new Upload** button.



- Download the default template by clicking **Get the default Template**.



- Open the template and save to a local area. (Opening the template will differ based on the browser used, so these steps are not shown.)



- Complete the fields in the template for each specimen, one specimen per row, and save locally.

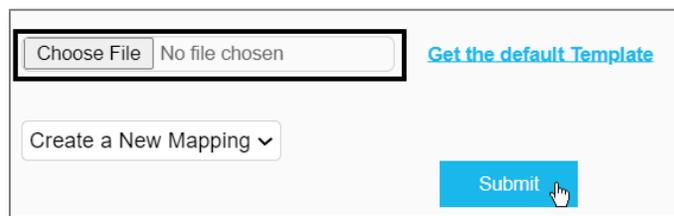
	A	B	C	D	E	F	G	H	I	J	K
	Specimen ID	Sample Type	Specimen Description	Patient ID	Sample Status	Sample Status Date	Sample Collected Quantity	Sample Collected Quantity Units	Alternate ID	Sample Collection date and time	Organization
1	A3	Blood	1 Vial	4678	Checked In	9/15/2021	10 Gram		N/A	09/15/2021 10:00:00AM	WCG - VELOS
2	A4	Cell	1cm	4678	Checked In	9/15/2021	3 Gram		N/A	09/15/2021 10:30:00AM	WCG - VELOS

Note: Fields are configurable so your data and column headers may differ and should not be revised, as the upload will fail. Refer to a Patient Record's Demographics tab for all options available for your fields as defined in your system.

- **IMPORTANT:** All data for fields must exist in the system and align.
- For example:
 - if using a Patient ID, the Patient ID must be in the system
 - for an Organization, the name of the Organization must align with the Organizations used for a specific Patient ID
 - Doctors and Technicians must exist at minimum as Non-System Users
 - Units must be defined in the system in order to select them

Note: Leave unknown fields blank in the spreadsheet, or leave a field blank if blinding, such as for the Patient ID.

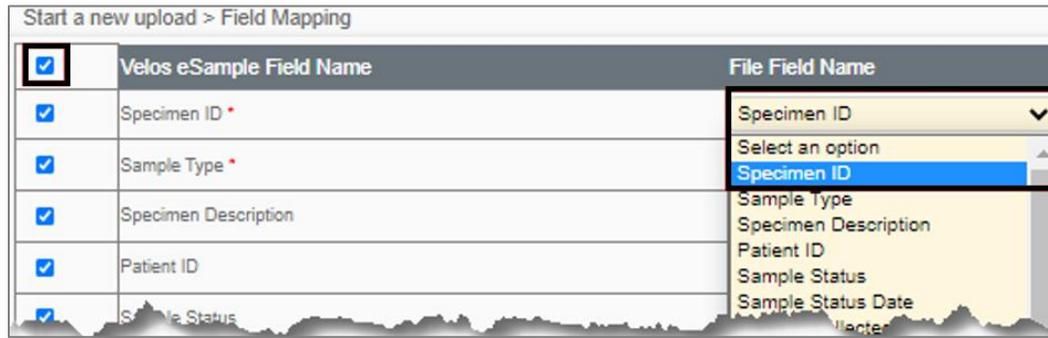
6. Click **Choose File**, upload the locally saved spreadsheet and click **Submit**.



The screenshot shows a web interface for file upload. At the top left, there is a button labeled 'Choose File' next to a text field containing 'No file chosen'. To the right of this is a blue link that says 'Get the default Template'. Below the 'Choose File' button is a dropdown menu with the text 'Create a New Mapping' and a downward arrow. At the bottom right of the interface is a blue button labeled 'Submit' with a mouse cursor hovering over it.

Note: A previously saved mapping can be selected from the dropdown here.

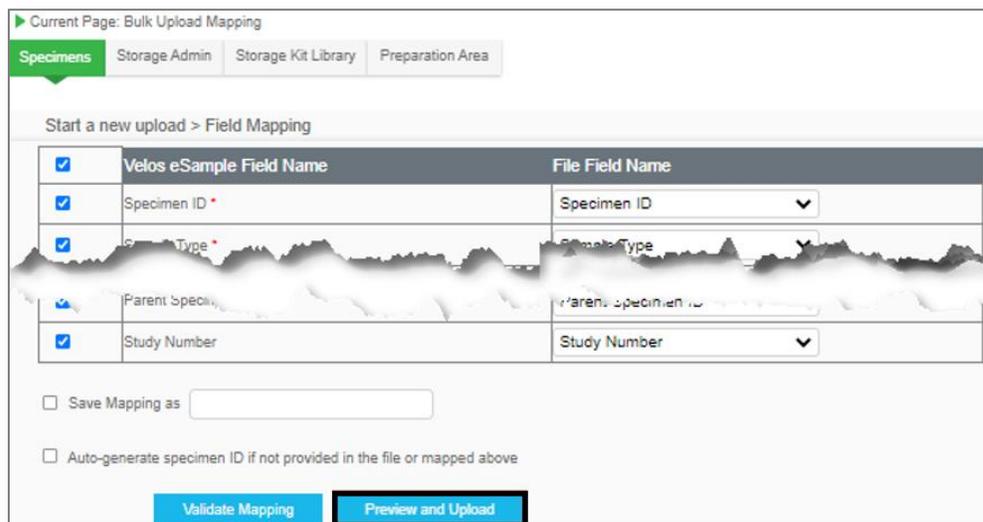
7. Check all checkboxes that apply for the field data you will be including for the specimen(s), or check the checkbox at the top left to select all, and then select a **File Field Name** to map with each Velos eSample Field Name checked (most likely these fields will be identical per row).



<input checked="" type="checkbox"/>	Velos eSample Field Name	File Field Name
<input checked="" type="checkbox"/>	Specimen ID *	Specimen ID
<input checked="" type="checkbox"/>	Sample Type *	Select an option
<input checked="" type="checkbox"/>	Specimen Description	Specimen ID
<input checked="" type="checkbox"/>	Patient ID	Sample Type
<input checked="" type="checkbox"/>	Sample Status	Specimen Description
		Patient ID
		Sample Status
		Sample Status Date

- Note:**
1. To save the mapping, check the checkbox for Save Mapping as and enter a name into the open text field.
 2. To have the system generate a specimen ID, leave the **Auto-generate specimen ID** checkbox checked. The Specimen ID in the first row must be unchecked.

8. Click the **Preview and Upload** button.



Current Page: Bulk Upload Mapping

Specimens | Storage Admin | Storage Kit Library | Preparation Area

Start a new upload > Field Mapping

<input checked="" type="checkbox"/>	Velos eSample Field Name	File Field Name
<input checked="" type="checkbox"/>	Specimen ID *	Specimen ID
<input checked="" type="checkbox"/>	Sample Type *	Sample Type
<input checked="" type="checkbox"/>	Parent specimen ID	Parent specimen ID
<input checked="" type="checkbox"/>	Study Number	Study Number

Save Mapping as

Auto-generate specimen ID if not provided in the file or mapped above

9. Review the data and click **Upload** in the Bulk Upload Preview page.

Current Page: Bulk Upload Preview

Specimens | Storage Admin | Storage Kit Library | Preparation Area

Upload

Specimen ID	A1	A2
Sample Collection date and time	09/15/2021 10:00:00AM	09/15/2021 10:30:00AM
Organization	WCG - VELOS	WCG - VELOS
Sample Notes	Save Unused	Save Unused
Anatomic Site	Lymph node	Lymph node
Issue Site		
Sample Collected Quantity		
Sample Collected Quantity Units	Gram	Gram
Alternate ID	N/A	N/A

Upload

An inserted pop-up window will appear showing if there are any errors with the uploaded data.

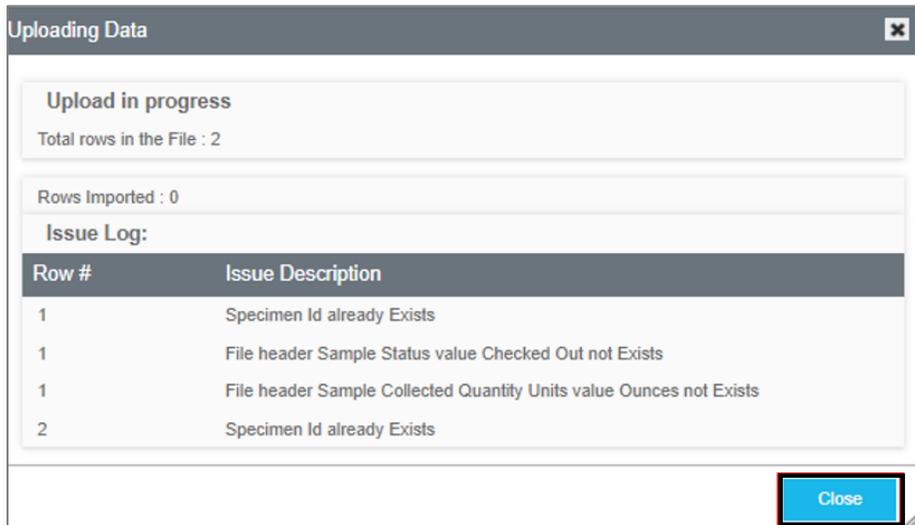
- If all specimen data entries are validated, you will see a confirmation of the *Total rows in the File* equaling the number of *Rows Imported*, as in the example below.

Upload Number: 146
 Total File records: 2
 Number of records uploaded successfully: 2
 Number of records uploaded successfully with warnings : 0
 Number of records not uploaded: 0

Close

-OR-

- If the pop-up window shows an error or errors, like the following example, return to your spreadsheet and ensure that all the data selected exists in the system before uploading a revised spreadsheet and continuing with the bulk upload process.

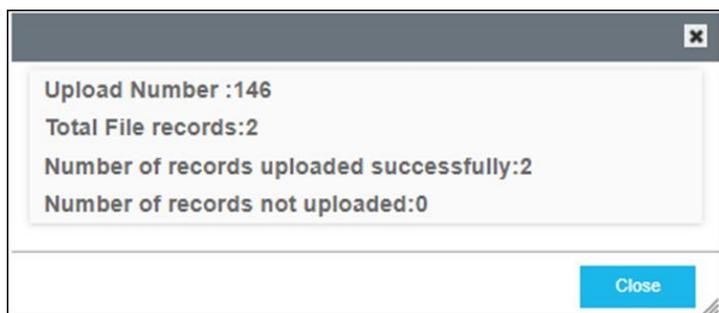


10. Click **Close** in the pop-up window.

When validated, the Bulk Upload Specimens page will appear showing the newly uploaded specimen(s) at the top of the table.



11. To view the upload log, click the **Preview** button in the Upload Log column. Click **Close**.

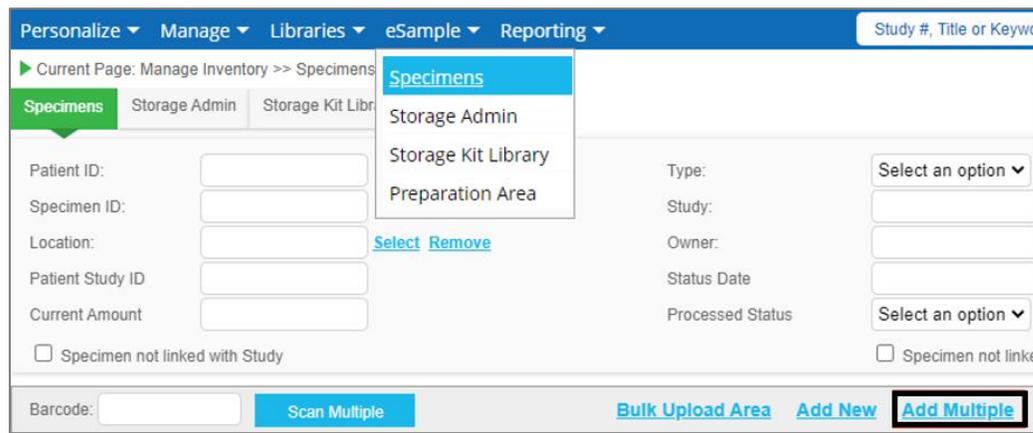


2.4.2.3 Add Multiple Specimens

Specimens can be created, and locations can be assigned, for more than one specimen at a time, by using the Add Multiple link on the Specimens page.

To add multiple specimens:

1. Click **Specimens** in the **eSample** dropdown in the navigation bar and then click **Add Multiple**.

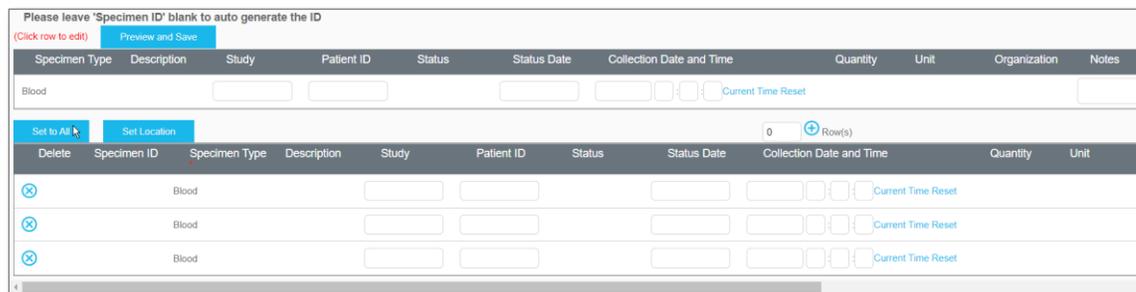


The screenshot shows the eSample application interface. At the top, there is a navigation bar with dropdown menus for 'Personalize', 'Manage', 'Libraries', 'eSample', and 'Reporting'. A search box on the right contains the text 'Study #, Title or Keywo'. Below the navigation bar, the current page is identified as 'Manage Inventory >> Specimens'. A dropdown menu is open under 'eSample', with 'Specimens' selected. Other options in the menu include 'Storage Admin', 'Storage Kit Library', and 'Preparation Area'. The main content area contains several input fields: 'Patient ID', 'Specimen ID', 'Location', 'Patient Study ID', and 'Current Amount'. There are also dropdown menus for 'Type' and 'Processed Status', and checkboxes for 'Specimen not linked with Study'. At the bottom, there is a 'Barcode' input field, a 'Scan Multiple' button, a 'Bulk Upload Area' link, an 'Add New' link, and an 'Add Multiple' button which is highlighted with a red box.

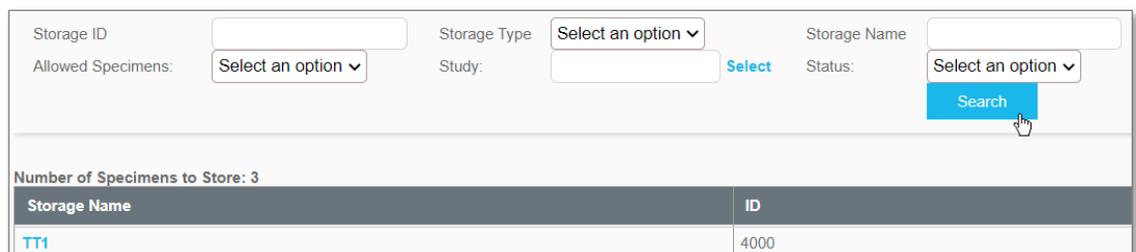
2. The Add Multiple Specimens pop-up appears.



1. Click in the **Specimen Type** field of the Power Bar to reveal the dropdown options then click an option. Complete the rest of the fields in the row as needed.
 - Click below a header to reveal each entry field
2. Enter a number in the blank field to the left of the word 'Row(s)', then click **Add**. The number of rows will appear below.
3. Click **Set to All** and the information in the Power Bar will cascade to the table.

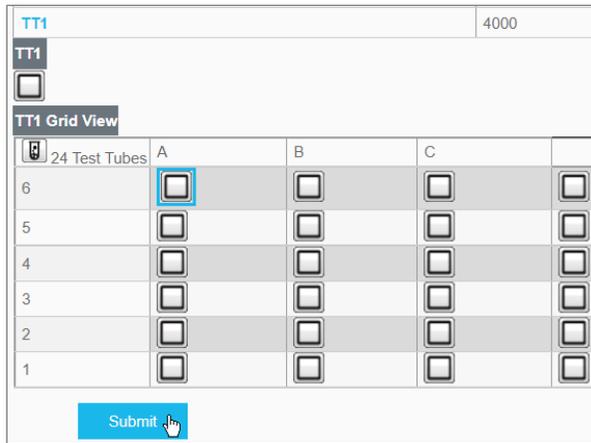


4. If a location is to be added, click **Set Location**.
 - a. Click **Search** in the resulting pop-up, using search fields if needed. Then click a Storage Name to select.



Storage Name	ID
TT1	4000

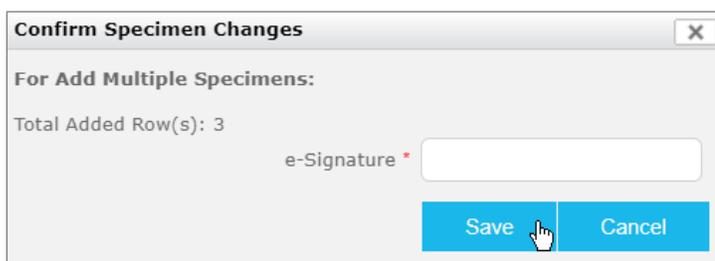
- b. In the resulting graphic representation of the storage area, click on a starting unoccupied storage location, then click **Submit**.



- c. Scroll to the far right on the Add Multiple Specimens page. The Location fields have been auto-populated with the storage location names.

Alternate ID	Location	Organization	Notes
TT1-6A			
TT1-6B			
TT1-6C			

5. Click **Preview and Save**. In the pop-up, enter your e-Signature, then click **Save** to confirm.



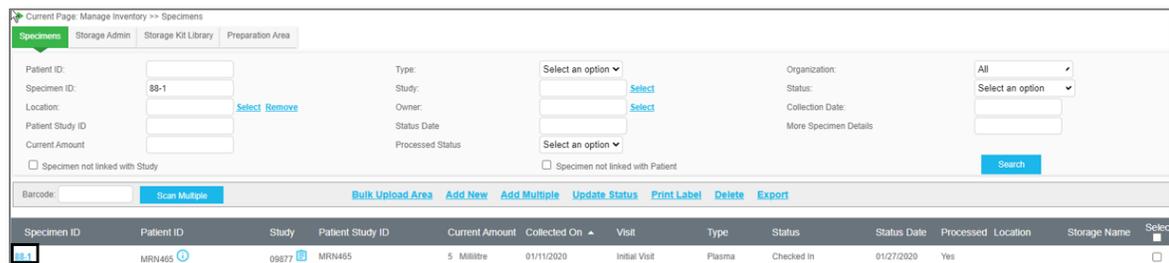
6. The new specimens are saved. Use the Search area in the Specimens tab to view the new specimens.

2.4.3 Edit a Specimen

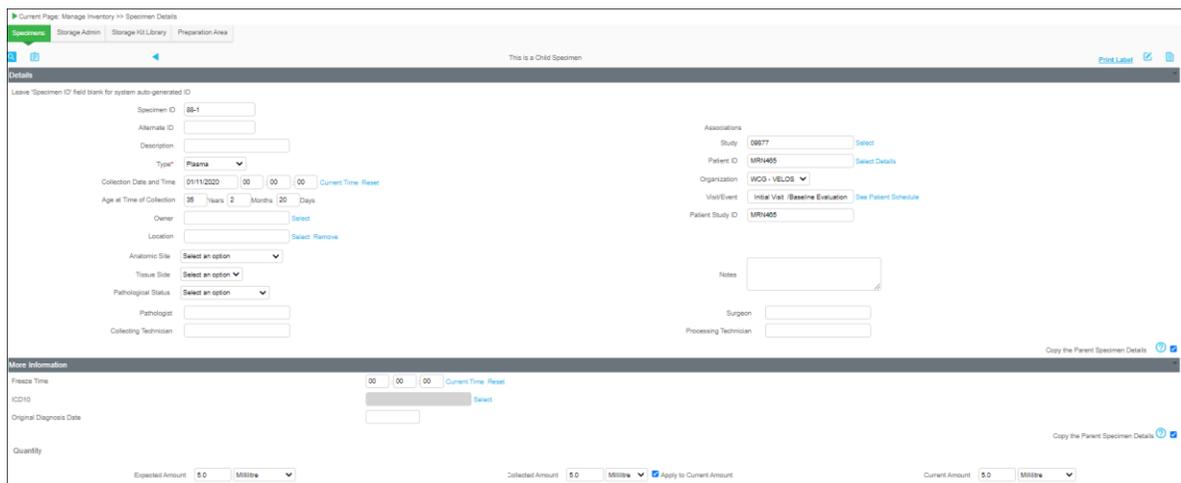
Make updates to the specimen or add additional information. The instructions for this section begin on the Specimens tab. Specimens can also be located on the Specimens tab for a Patient Record, if the specimen is associated with the Patient Record. **Refer to the Patient Management>Patient Search section in the eResearch User Guide**, for more information.

To Edit a Specimen:

1. From the Specimens tab, use the **Search** filters to search for a specific Specimen. Click the **Specimen ID** to review and edit the specimen information.



The Specimen Details page displays:



- Note:**
1. If parent specimen details are being modified and the changes should not apply to the child specimens, uncheck the checkbox for Copy the Parent Specimen Details for the appropriate section(s).
 2. In the upper right of the Specimen Details page is an Attachments button which appears as a paperclip icon. This button can be used to associate files to the specimen.

2. Enter information as appropriate to define the Specimen, enter your e-Signature, and click **Submit** to confirm.

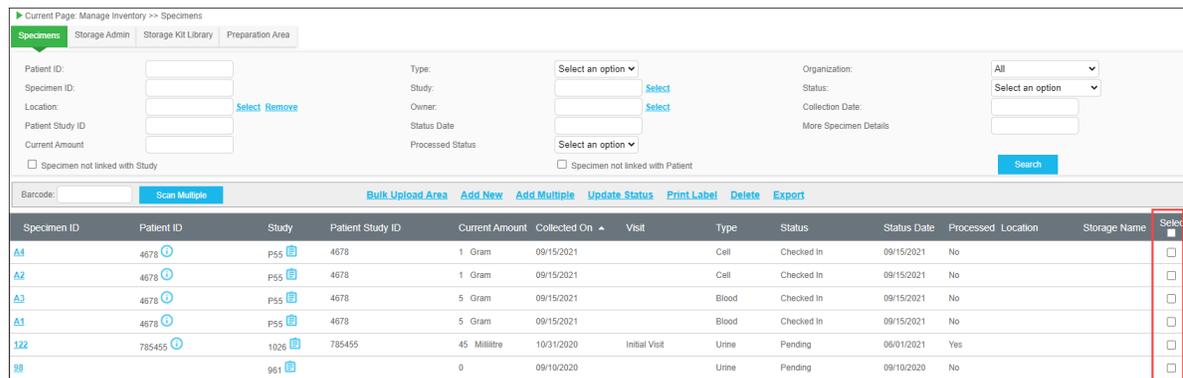


2.4.3.1 Update Specimen Status

From the Specimens tab, users can select, and update specimen statuses as needed.

To update a specimen status:

1. From the Specimens tab, **Search** for the desired specimens.

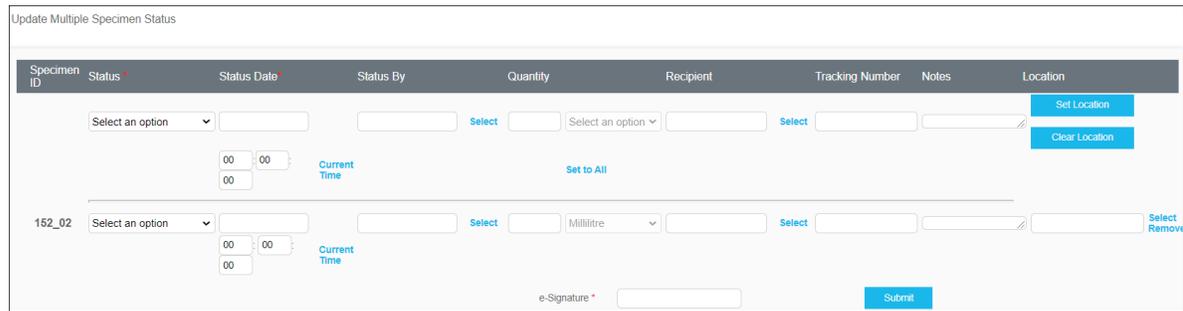


Specimen ID	Patient ID	Study	Patient Study ID	Current Amount	Collected On	Visit	Type	Status	Status Date	Processed	Location	Storage Name	Select
A1	4678	P55	4678	1 Gram	09/15/2021		Cell	Checked In	09/15/2021	No			<input type="checkbox"/>
A2	4678	P55	4678	1 Gram	09/15/2021		Cell	Checked In	09/15/2021	No			<input type="checkbox"/>
A3	4678	P55	4678	5 Gram	09/15/2021		Blood	Checked In	09/15/2021	No			<input type="checkbox"/>
A1	4678	P55	4678	5 Gram	09/15/2021		Blood	Checked In	09/15/2021	No			<input type="checkbox"/>
122	785455	1026	785455	45 Millilitre	10/31/2020	Initial Visit	Urine	Pending	06/01/2021	Yes			<input type="checkbox"/>
98		961		0	09/10/2020		Urine	Pending	09/10/2020	No			<input type="checkbox"/>

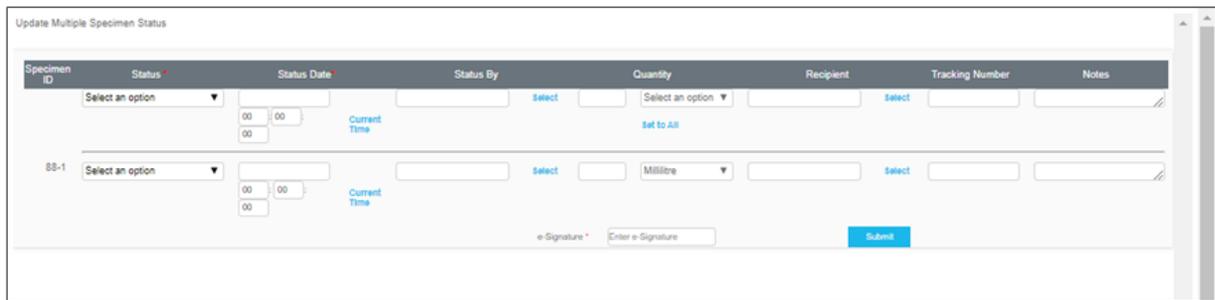
2. Using the select column, check the appropriate specimen that you would like to select.
3. Click **Update Status**.



The Update Multiple Specimen Status window opens:

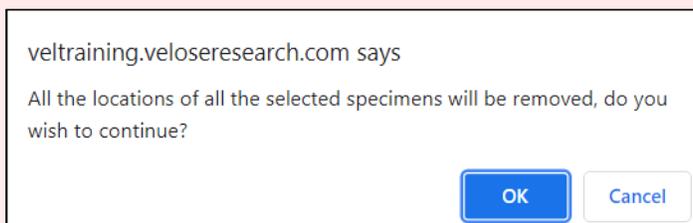


4. Enter in the appropriate information to update one or multiple Specimen statuses.



Note: To view how to use the Power Bar and the Set Location button, when selecting multiple specimens to update, refer to [Step 8 of Child Specimens](#).

Warning: If the Clear Location button is clicked, all selected specimens will be removed, and a warning message will appear. Only click OK, if removing all selected specimens.



5. Enter your e-Signature and click **Submit** to confirm.



2.4.3.2 Cascading Information to Child Specimens

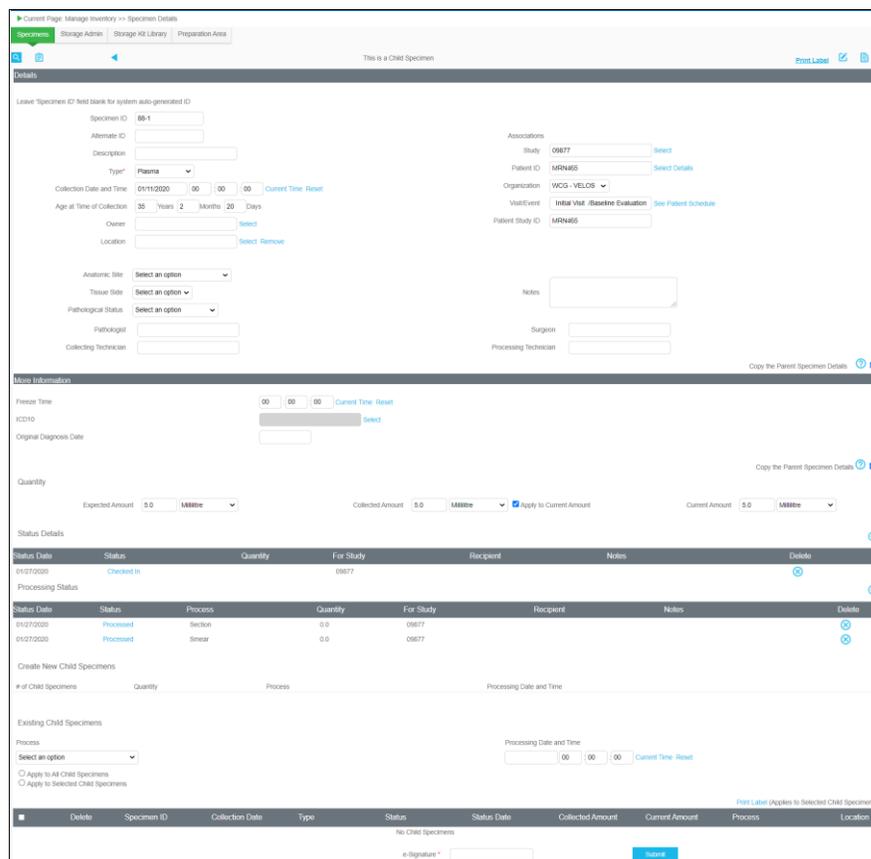
It is an optional function to link or associate a specimen to a parent specimen. This function will copy the parent specimen details.

To cascade information from a parent specimen to a child specimen:

1. From the Specimens, tab, use the Search filters to search for a specific Specimen. Click the **Specimen ID** to review and edit the specimen information.

Barcode:	Scan Multiple	Bulk Upload Area	Add New	Add Multiple	Update Status	Print Label	Delete	Export
MRN465	09877	MRN465	5	Millilitre	01/11/2020	Initial Visit	Plasma	Checked In
MRN465	09877	MRN465	0	Millilitre	01/11/2020	Initial Visit	Plasma	Depleted

The specimen details page displays:



The screenshot displays the 'Specimen Details' page for a specimen with ID 06-1. The page is divided into several sections:

- Details:** Contains fields for Specimen ID (06-1), Alternate ID, Description, Type (Plasma), Collection Date and Time (01/11/2020 00:00:00), Age at Time of Collection (36 Years 2 Months 20 Days), Owner, Location, Anatomical Site, Tissue Side, Pathological Status, Pathologist, Collecting Technician, Associations (Study: 09877, Patient ID: MRN465, Organization: WCG-VELDS, Visit Event: Initial Visit - Baseline Evaluation, Patient Study ID: MRN465), Notes, Surgeon, and Processing Technician.
- More Information:** Includes Freeze Time, ICD10, Original Diagnosis Date, and Quantity (Expected Amount: 5.0 Millilitre, Collected Amount: 5.0 Millilitre, Current Amount: 5.0 Millilitre).
- Status Details:** A table showing the specimen's status, including 'Checked In' on 01/11/2020.
- Processing Status:** A table showing processing details for the specimen, including 'Section' and 'Sear' processes.
- Create New Child Specimens:** A section for creating new child specimens, including fields for '# of Child Specimens', 'Quantity', 'Process', and 'Processing Date and Time'.
- Existing Child Specimens:** A section for existing child specimens, including a 'Process' dropdown and 'Apply to All Child Specimens' or 'Apply to Selected Child Specimens' options.
- Table:** A table at the bottom showing child specimens, with columns for Delete, Specimen ID, Collection Date, Type, Status, Status Date, Collected Amount, Current Amount, Process, and Location. The table currently shows 'No Child Specimens'.

2. Check or uncheck the **Copy the Parent Specimen Details** field(s).



When a parent specimen is split to create child specimens, the child specimens will appear at the bottom of the parent specimen's Specimen Details page. Refer to [Child Specimens](#) for more details.



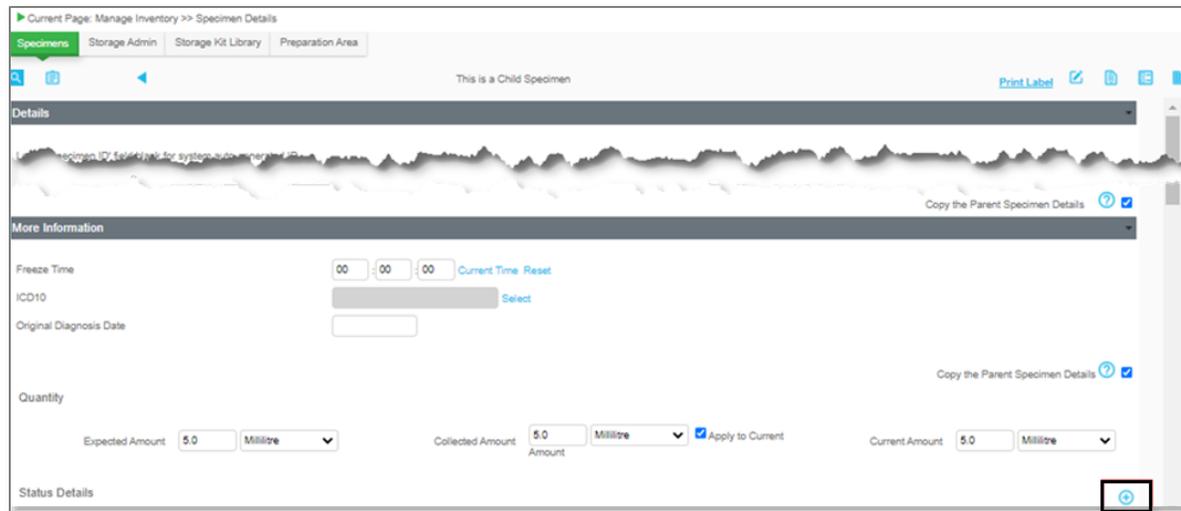
Note: To view how to use the Power Bar and the Set Location button, when selecting multiple specimens to update, refer to [Step 8 of Child Specimens](#).

2.4.4 Add Specimen Status

Statuses for specimens may be added to define the step in a process or transfer custody for a specimen such as being checked in after collection. The instructions of this section begin on the Specimen Details page.

To add a Specimen Status:

1. From the Specimen Details page, click the **Add New** button in the Status Details section.



The Specimen Status Details page displays:

Please enter specimen status details:

Tracking Number	<input type="text"/>	Status Date and Time *	<input type="text"/> : <input type="text"/> : <input type="text"/> : <input type="text"/> Current Time
Status*	<input type="text" value="Checked In"/>	Recipient	<input type="text"/> Select User
Status By	<input type="text" value="Annie Michel"/> Select User	Quantity	<input type="text"/> <input type="text" value="Millilitre"/>
For Study	<input type="text"/> Select Study		
Status Notes	<input type="text"/>		

2. Enter information as appropriate using the available fields.

Field	Description
Tracking Number	Enter a tracking number into the field for the Specimen Status.
Status	Select a status from the dropdown options. This field is required.
Status By	Select a user for the status entry. The default user will be the user that is signed into eResearch.
For Study	Use the Select Study button to select which study the status specimen should apply to.
Status Notes	Enter in any status notes if appropriate.
Status Date and Time	Enter in the status date and time or use the Current Time button to use the current time. This field is mandatory.
Recipient	Use the Select User link to select a user to be the recipient.

Field	Description
Quantity	Enter a numeric quantity into the field and select a unit measurement using the dropdown field options. This field may be mandatory depending on status.

Note: Specimen statuses can be configured to add or subtract the current quantity if specified for the specimen. When adding a status that does not affect the specimen's current quantity, enter "0" for the quantity. Reach out to Velos Support for configuration assistance.

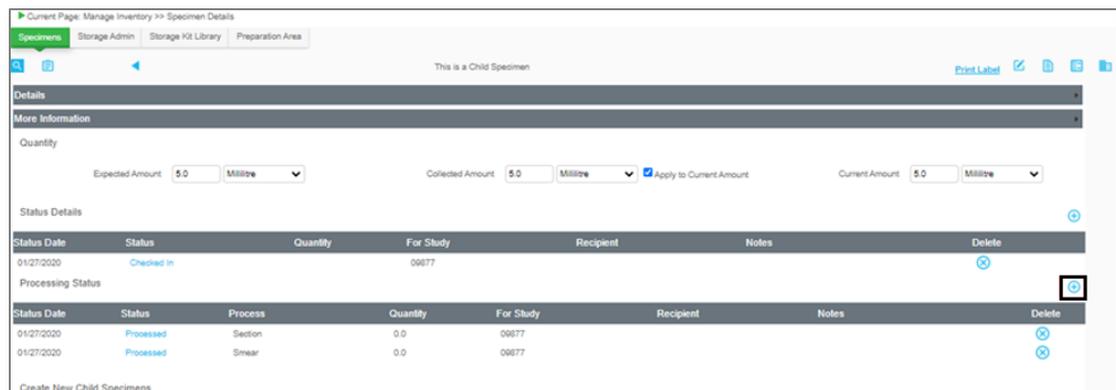
- Once the information is entered, click **Submit** or **Submit and Add Another**.

2.4.5 Add Processing Status

Process statuses may be added for a specimen such as if it has been processed. The instructions for this section begin at the Specimen Details page.

To add a Processing Status:

- From the Specimen Details page, click the **Add New** button in the Processing Status section.



The screenshot shows the 'Specimen Details' page with the following sections:

- Quantity:** Expected Amount: 5.0 Millire, Collected Amount: 5.0 Millire (checked 'Apply to Current Amount'), Current Amount: 5.0 Millire.
- Status Details:**

Status Date	Status	Quantity	For Study	Recipient	Notes	Delete
01/27/2020	Checked In		00677			
- Processing Status:**

Status Date	Status	Process	Quantity	For Study	Recipient	Notes	Delete
01/27/2020	Processed	Section	0.0	00677			
01/27/2020	Processed	Sinear	0.0	00677			

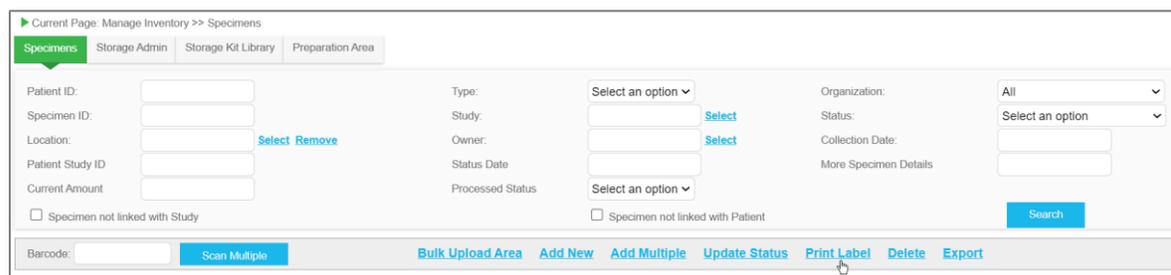
The 'Add New' button in the Processing Status section is highlighted with a red box.

- Using the **Select** column, select the appropriate checkbox for the desired specimen.

Select <input type="checkbox"/>
<input type="checkbox"/>
<input checked="" type="checkbox"/>
<input type="checkbox"/>

Note: Multiple specimens may be selected at once to print their respective labels

- Click **Print Label**.



The Generate Bar Code page appears.



- Choose a Template** from the dropdown menu and click **Go**.



Note: Templates can be updated or added by support teams. Reach out to your business associate for more information.

The generated barcode displays and may be printed using the **Printer** button.



Note: Users may utilize a label printer of their choice.

- A sample label is included, however more styles may be added by Velos Support as an additional service. See the list of available keywords below:

<u>Keywords in Specimen Template</u>	
These keywords, if used in the specimen template, will be replaced by the relevant data in the database.	
{VEL_BARCODE}	The generated barcode image will be placed where this keyword is in the template.
{VEL_PDF417_BARCODE}	The generated 2D-barcode of PDF417 image will be placed where this keyword is in the template.
{VEL_DATA_MATRIX_BARCODE}	The generated 2D-barcode of DataMatrix image will be placed where this keyword is in the template.
{VEL_COLL_AMT}	Collected amount and unit of the specimen.
{VEL_COLL_DATE}	Date (without time) of collection.
{VEL_COLL_DATE_TIME}	Date and time of collection.
{VEL_IMAGE}	Path to static image files on server. This keyword will be replaced by value specified in eresearch.xml under <applicationDefaults> as <staticImagePath>. Prefix image file name with this keyword. e.g. src="{VEL_IMAGE}my_image.jpg"
{VEL_LATEST_STAT}	Latest specimen status.
{VEL_PARENT_SPEC}	Parent specimen ID.
{VEL_PAT_PK}	Patient primary key (internal ID).
{VEL_PAT_STUDY_ID}	Patient study ID.
{VEL_PATCODE}	Patient ID.
{VEL_PATHOLOGICAL}	Pathological Status.
{VEL_SAMPLE_TYPE}	Sample type.
{VEL_SPEC_ID}	Specimen ID.
{VEL_SPEC_ALT_ID}	Alternate specimen ID.
{VEL_STORAGE_ID}	ID of storage in which the specimen is stored.
{VEL_STUDY_NUMBER}	Study Number.
{VEL_STUDY_PHASE}	Study Phase.

Note: Actual barcode size is approximately one inch.

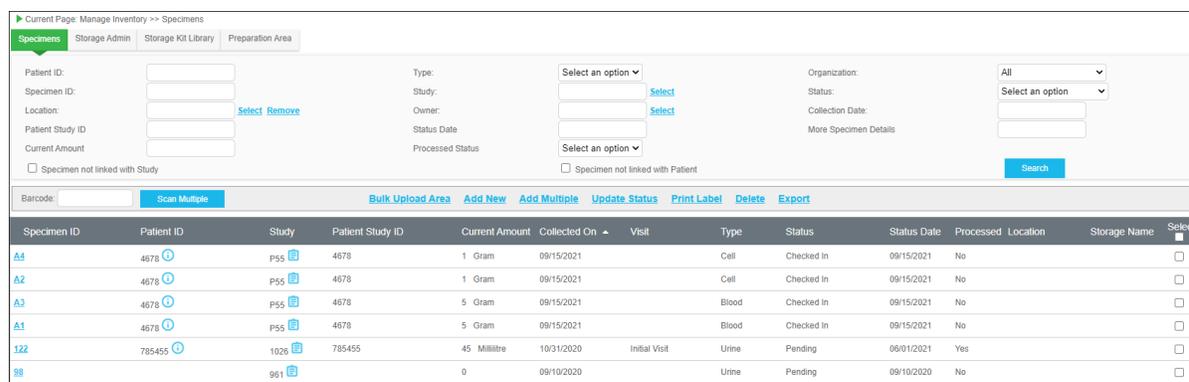
2.4.7 Delete Specimens

One or multiple specimens may be deleted at one time.

Warning: Use extreme caution when deleting.

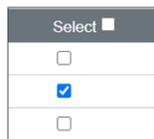
To delete Specimens:

1. From the Specimens tab, **Search** for the Specimen using the search filters.



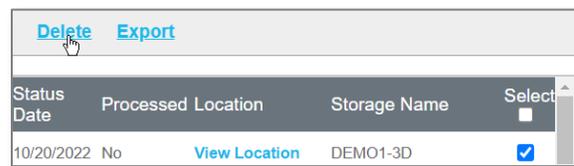
Specimen ID	Patient ID	Study	Patient Study ID	Current Amount	Collected On	Visit	Type	Status	Status Date	Processed	Location	Storage Name	Select
A1	4678	P55	4678	1 Gram	09/15/2021		Cell	Checked In	09/15/2021	No			<input type="checkbox"/>
A2	4678	P55	4678	1 Gram	09/15/2021		Cell	Checked In	09/15/2021	No			<input type="checkbox"/>
A3	4678	P55	4678	5 Gram	09/15/2021		Blood	Checked In	09/15/2021	No			<input type="checkbox"/>
A1	4678	P55	4678	5 Gram	09/15/2021		Blood	Checked In	09/15/2021	No			<input type="checkbox"/>
122	785455	1026	785455	45 Millilitre	10/31/2020	Initial Visit	Urine	Pending	06/01/2021	Yes			<input type="checkbox"/>
98		961		0	09/10/2020		Urine	Pending	09/10/2020	No			<input type="checkbox"/>

2. Using the **Select** column, select the appropriate checkbox for the desired specimen(s).



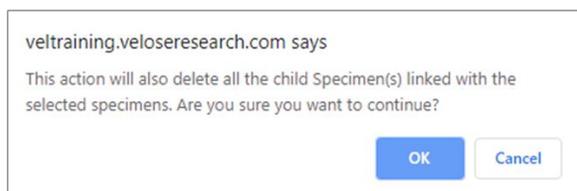
Select
<input type="checkbox"/>
<input checked="" type="checkbox"/>
<input type="checkbox"/>

3. Click **Delete**.



Status Date	Processed	Location	Storage Name	Select
10/20/2022	No	View Location	DEMO1-3D	<input checked="" type="checkbox"/>

A message window opens:



veltraining.veloseresearch.com says

This action will also delete all the child Specimen(s) linked with the selected specimens. Are you sure you want to continue?

OK Cancel

- Click **OK** to confirm Specimen deletion.

The Confirm Deletion page displays.



Please enter e-Signature to proceed with deletion.

e-Signature *

- Enter your e-Signature and click **Submit** to confirm.



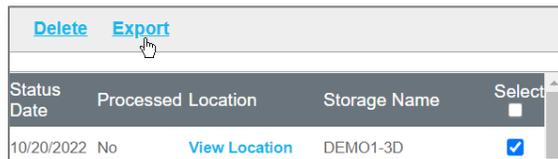
Valid e-Sign e-Signature *

2.4.8 Export Specimens

All specimens displayed as search results can be exported as a CSV file in order to further review and analyze data.

After applying search filters, to export all specimen results:

- Click **Export**.



Buttons: [Delete](#) [Export](#)

Status Date	Processed Location	Storage Name	Select
10/20/2022	No View Location	DEMO1-3D	<input checked="" type="checkbox"/>

- Download the file, open, and save locally, as needed.

Specimen ID	Patient ID	Study	Patient Study ID	Current Amount	Collected On	Visit	Type	Status	Status Date	Processed Location
109	0000-44444	9877	0000-44444	0	1/7/2020	Initial Visit	Blood	Pending	1/29/2021	No
109_01	0000-44444	9877	0000-44444	0	1/7/2020	Initial Visit	Blood	Pending	1/29/2021	No
109_02	0000-44444	9877	0000-44444	0	1/7/2020	Initial Visit	Blood	Pending	1/29/2021	No
110	0000-44444	9877	0000-44444	0	1/7/2020	Initial Visit	Plasma	Pending	1/29/2021	No
89	0000-44445	484744	0000-44445	0	6/25/2020	Initial Visit	Blood	Pending	6/25/2020	No
89_01	0000-44445	484744	0000-44445	0	6/25/2020	Initial Visit	Blood	Pending	6/25/2020	No
89_02	0000-44445	484744	0000-44445	0	6/25/2020	Initial Visit	Blood	Pending	6/25/2020	No
111_02	0000-44445	9877	0000-44445	0	2/2/2020	Initial Visit	Blood	Pending	2/16/2021	No
105	0000-44445	484744	0000-44445	0	7/2/2020	Initial Visit	Blood	Pending	9/10/2020	No

Note: Individual specimens cannot be selected for export after searching. To narrow results, apply new filters in a search before exporting.

2.4.9 Scan Multiple Option

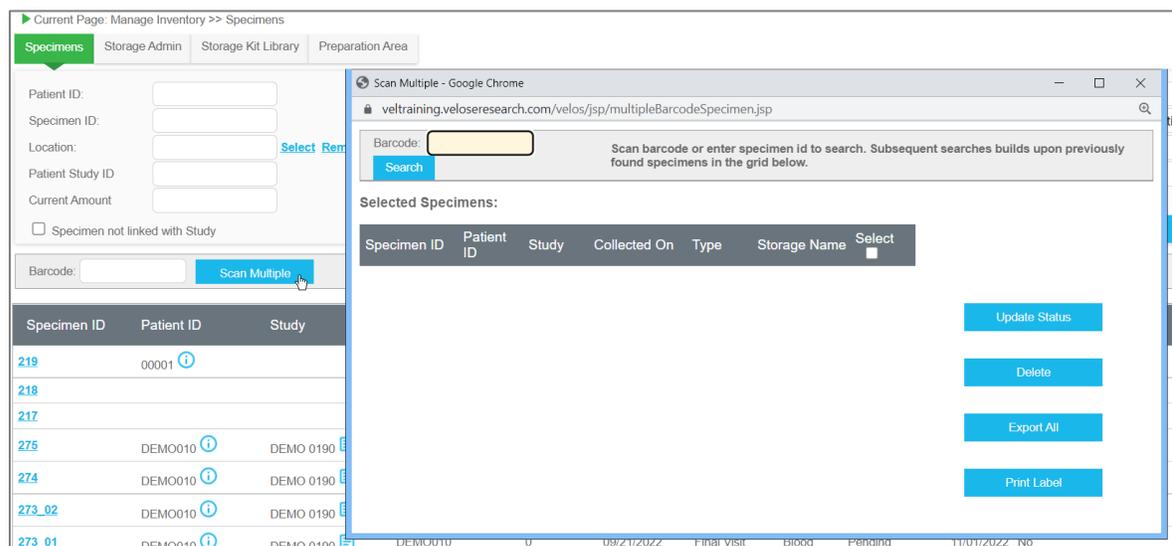
Specimens can be scanned in at one time, or manually added individually, using the Scan Multiple button to simultaneously update statuses, delete, export, or to facilitate the printing of labels for multiple specimens.

The Update Status option only allows to update 50 specimens' statuses at a time. Therefore, up to 50 specimens at a time can be selected to have their statuses updated in the Scan Multiple Window.

Note: To view how to use the Power Bar and the Set Location button, when selecting multiple specimens to update, refer to [Step 8 of Child Specimens](#), as needed.

To access update multiple specimens simultaneously using the Scan Multiple button:

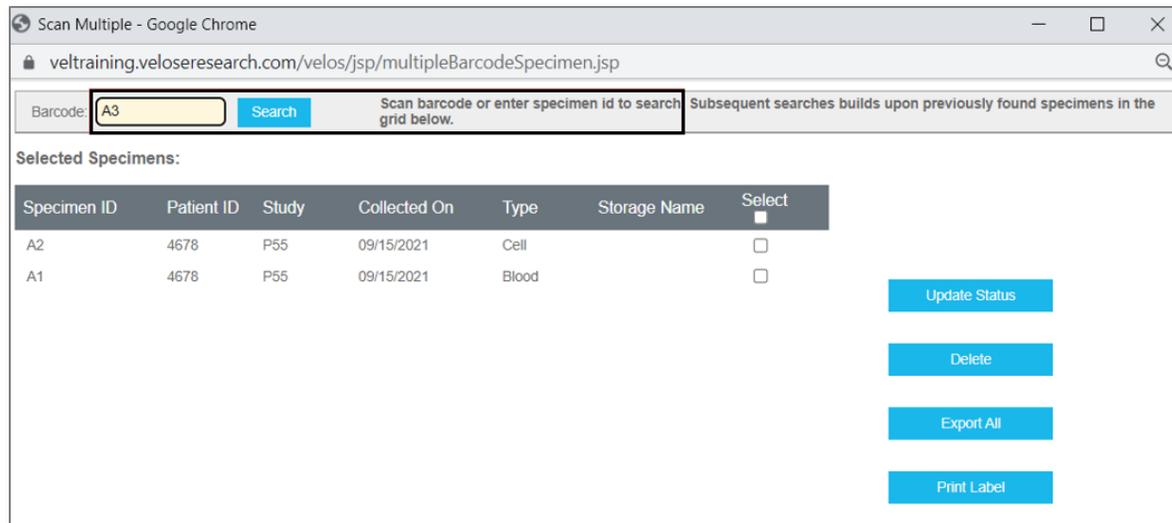
1. Click the **Scan Multiple** while in the Specimens tab.



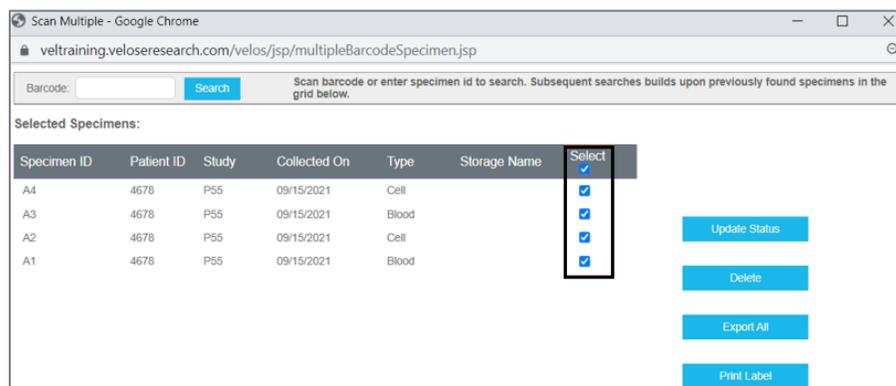
The screenshot shows a web browser window titled "Scan Multiple - Google Chrome" with the URL veltraining.veloseresearch.com/velos/jsp/multipleBarcodeSpecimen.jsp. The interface includes a search bar with a "Search" button and a "Scan Multiple" button. Below the search bar is a table of "Selected Specimens" with columns for Specimen ID, Patient ID, Study, Collected On, Type, Storage Name, and a "Select" checkbox. To the right of the table are four action buttons: "Update Status", "Delete", "Export All", and "Print Label".

Specimen ID	Patient ID	Study	Collected On	Type	Storage Name	Select
219	00001					<input type="checkbox"/>
218						<input type="checkbox"/>
217						<input type="checkbox"/>
275	DEMO010	DEMO 0190				<input type="checkbox"/>
274	DEMO010	DEMO 0190				<input type="checkbox"/>
273_02	DEMO010	DEMO 0190				<input type="checkbox"/>
273_01	DEMO010	DEMO 0190				<input type="checkbox"/>

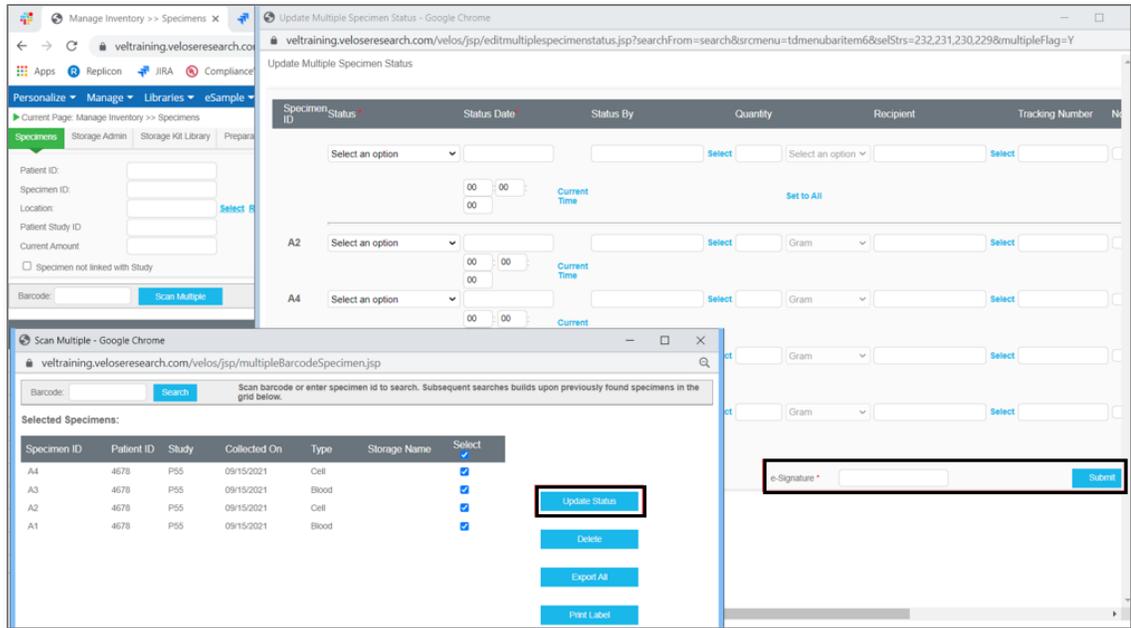
2. Either use a bar code scanner and scan each specimen or enter each Specimen ID into the Barcode search field and click **Search** to add to the table.



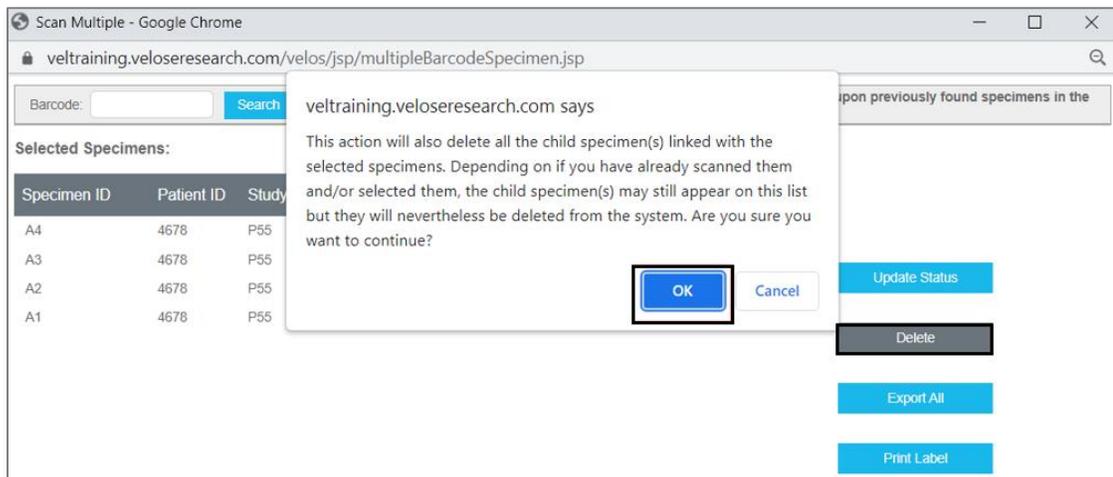
3. After all specimens are added, check the checkboxes in the Select column, or the single checkbox under Select to select all, as applicable.



- a. After clicking **Update Status** in the Scan Multiple pop-up, update applicable data, then e-Sign and click **Submit**.

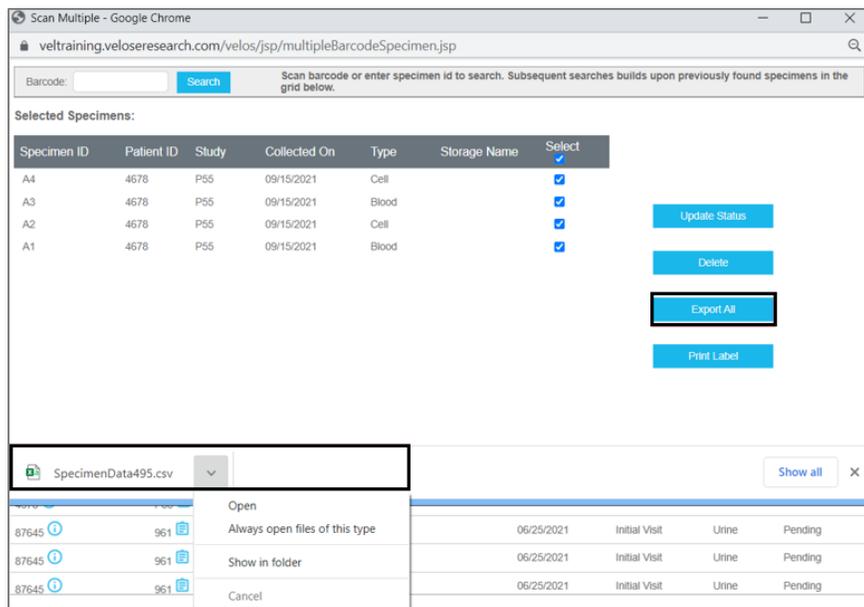


- b. After clicking **Delete** in the Scan Multiple pop-up, click **OK** to confirm deletion.



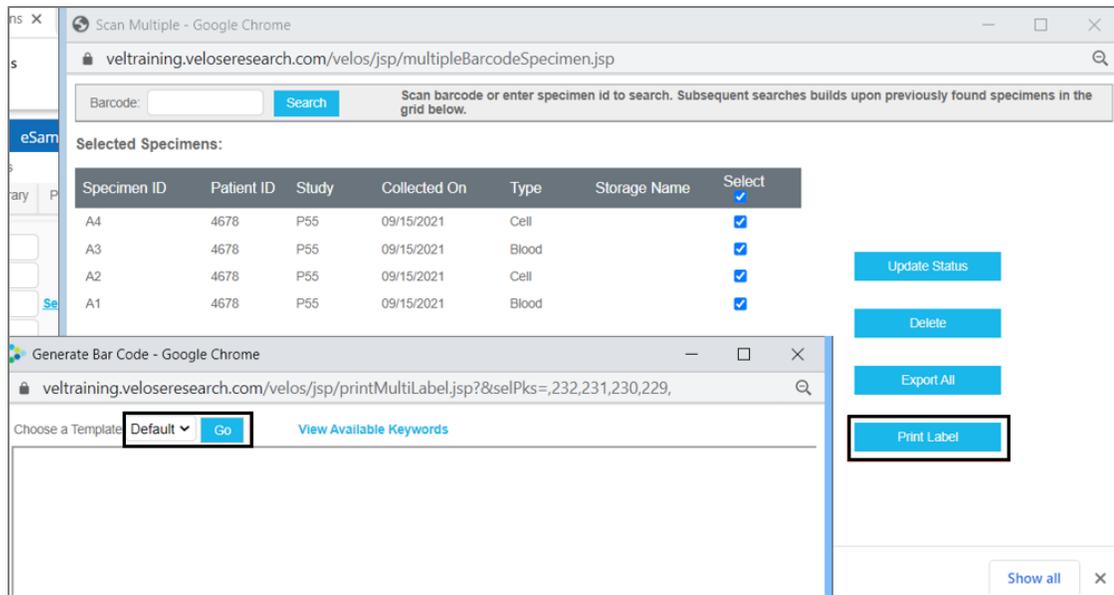
Warning: Only click **OK** if all specimens are confirmed to be deleted.

- c. After clicking **Export All** in the Scan Multiple pop-up, download or open the CSV file, as per the browser being used.

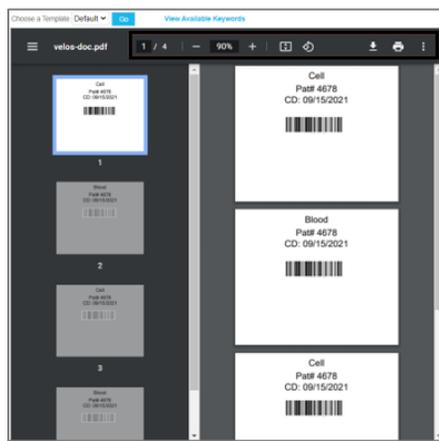


Note: All specimens scanned will be exported regardless of the use of checkboxes for selection.

- d. After clicking **Print Label** in the Scan Multiple pop-up, select from the Choose a Template dropdown and click **Go** in the new pop-up window.



- i. Use the scroll bar to view all bar codes and use the options at the top navigation bar as needed including to download or print.



Note: Actual barcode size is approximately one inch. Templates can be configured or added. Please reach out to your business associate for assistance.

2.4.10 Specimen Forms

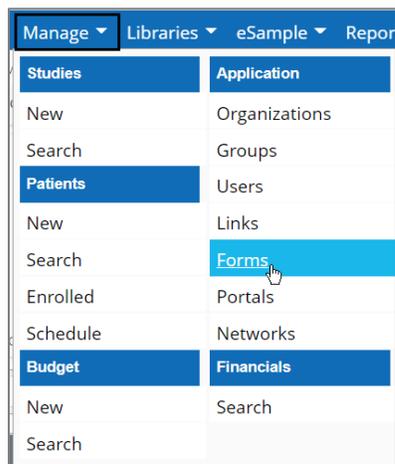
Forms may be added to a specimen. These forms must first be set to display in the Form Management > Form Display and Sequencing page. To collect additional information for a specimen, custom forms may be designed (Forms Library) and then displayed in Velos eSample.

2.4.10.1 Display of Forms in Specimen Management

Forms must first be added to the Form Management page and associated to Patients and set to display in specimen management.

To set forms to display in patient management:

1. Click **Forms** under Application in the **Manage** dropdown.



2. Ensure applicable forms are linked to the appropriate Form Management level and set to active. See example below showing a Patient Lab Form that is Active and linked to All Patients.

Current Page: Manage Account >> Form Management

Organizations Groups Users Account Links **Form Management** Portal Admin Networks

Search By

Form Name: Study: [Select](#)

Group: Organization:

Selected Filters are: Form Name: **All** Study: Linked to: **All** Organization: **All** Group: **All**

Currently associated forms are: [COPY AN EXISTING FORM](#) [DISPLAY AND SEQUENCING OPTIONS](#)

Name	Description	Linked To	Study	Form Status
PANSS-6	-	Patient(Specific Study)	00012	Work In Progress
Patient Lab Form	-	All Patients		Active
Study Startup Form	Study Startup Form	Study	P97	Active

Note: Specimens can be created without patient or study information. For those type of specimens, other form types such as Account, Study, etc. may apply

3. Click **DISPLAY AND SEQUENCING OPTIONS**.

Current Page: Manage Account >> Form Management

Organizations Groups Users Account Links **Form Management** Portal Admin Networks

Search By

Form Name: Study: [Select](#)

Group: Organization:

Selected Filters are: Form Name: **All** Study: Linked to: **All** Organization: **All** Group: **All**

Currently associated forms are: [COPY AN EXISTING FORM](#) [DISPLAY AND SEQUENCING OPTIONS](#)

Name	Description	Linked To	Study
------	-------------	-----------	-------

4. Check the applicable checkboxes for forms to appear in the forms for specimens in the Specimen Management area, enter your e-Signature, and click **Submit**.

Manage Account >> Form Management >> Form Display and Sequencing

Active / Lockdown Forms	Hide	Display Sequence	Display in Patient Profile	Display in Specimen Management
Forms Linked to All Patients				
Patient Lab Form	<input type="checkbox"/>	0		<input type="checkbox"/>
Forms Linked to Patients on All Studies				
Forms Linked to All Studies				
MERRS-6 Questionnaire - Limited	<input checked="" type="checkbox"/>	2		<input type="checkbox"/>
Study Startup Form	<input type="checkbox"/>	1		<input type="checkbox"/>
Forms Linked to Account				
Administrative for PhagePharm	<input type="checkbox"/>	0		<input type="checkbox"/>
Forms Linked to Networks				
Forms Linked to Organizations				
Forms Linked to Users				
			e-Signature *	Submit
				Close

The selected forms will now appear in the Biospecimen Management area.

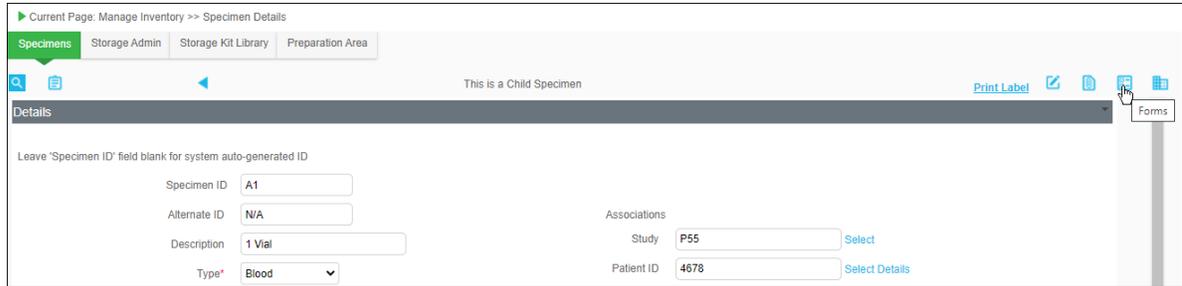
Note: If a form is checked for selection in the Display in Specimen Management field, but also is checked in the Hide field, it will not appear in the Specimen Management area for forms.

2.4.10.2 Adding, Editing, and Viewing Forms in eSample

Forms can be added, edited, and viewed in eSample from the specimen's details page.

After navigating to the Specimens tab and clicking on a Specimen ID:

1. Click **Forms**.



Current Page: Manage Inventory >> Specimen Details

Specimens Storage Admin Storage Kit Library Preparation Area

This is a Child Specimen

Print Label

Forms

Leave 'Specimen ID' field blank for system auto-generated ID

Specimen ID

Alternate ID

Description

Type*

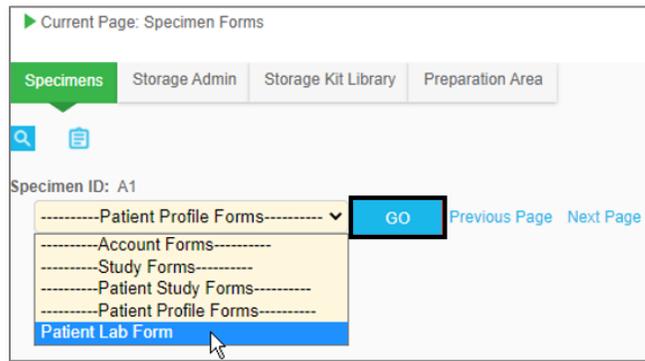
Associations

Study [Select](#)

Patient ID [Select Details](#)

Note: The Attachments button, located to the left of the Forms button, allows for attaching documents and links to a specimen as is performed in the Attachments / Versions tab for a study

2. Select an appropriate form from the dropdown and click **GO**.



Current Page: Specimen Forms

Specimens Storage Admin Storage Kit Library Preparation Area

Specimen ID: A1

-----Patient Profile Forms-----

-----Account Forms-----

-----Study Forms-----

-----Patient Study Forms-----

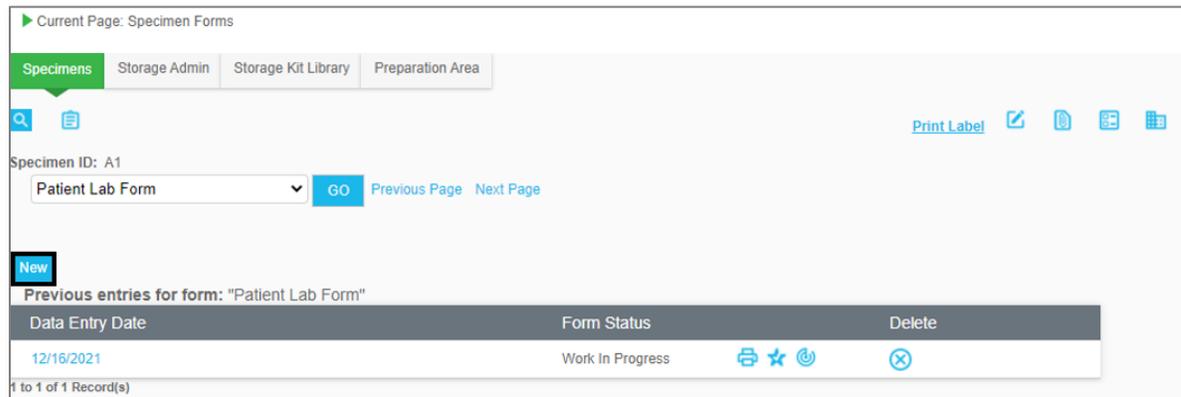
-----Patient Profile Forms-----

Patient Lab Form

GO [Previous Page](#) [Next Page](#)

Note: If there are any existing forms, they will appear in a table below the New button

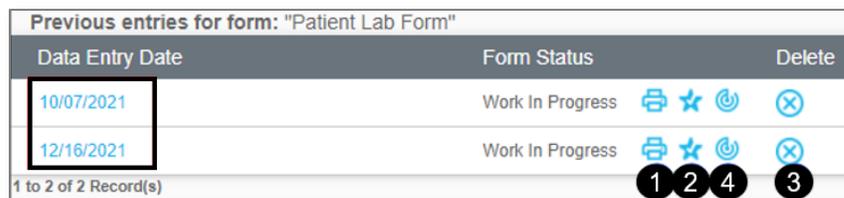
- Click **New** to complete a new form.



- Complete the form as needed, enter your e-Signature and click **Submit**.



The new form will appear in a table.



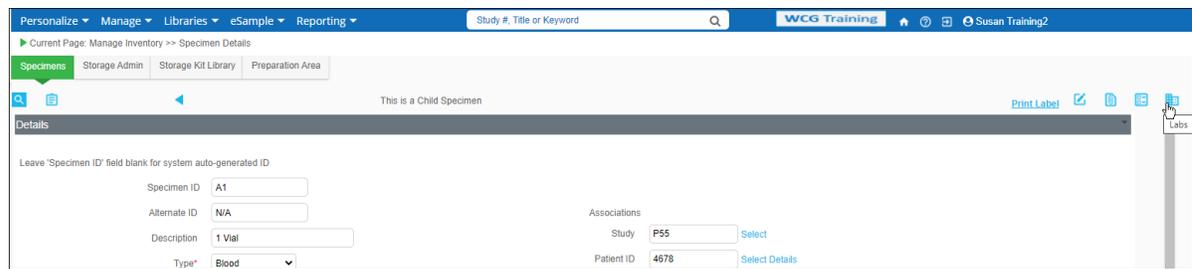
- The form can be (1) printed, (2) audited, (3) deleted, and (4) track changes can be viewed.
- Additionally, the form can be edited by clicking on the **Data Entry Date** link and then submitting the changes.

2.4.11 Specimen Labs

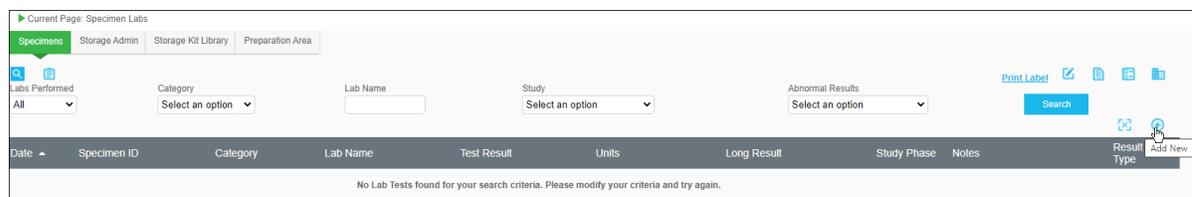
Labs may be added to a specimen. Labs include tests performed on a sample, the results, and the normal range of results for that test to determine if the lab result is normal or abnormal. Often, labs are imported into eResearch by customer integrations.

After navigating to the Specimens tab and clicking on a Specimen ID, to add a lab:

1. Click **Labs**.

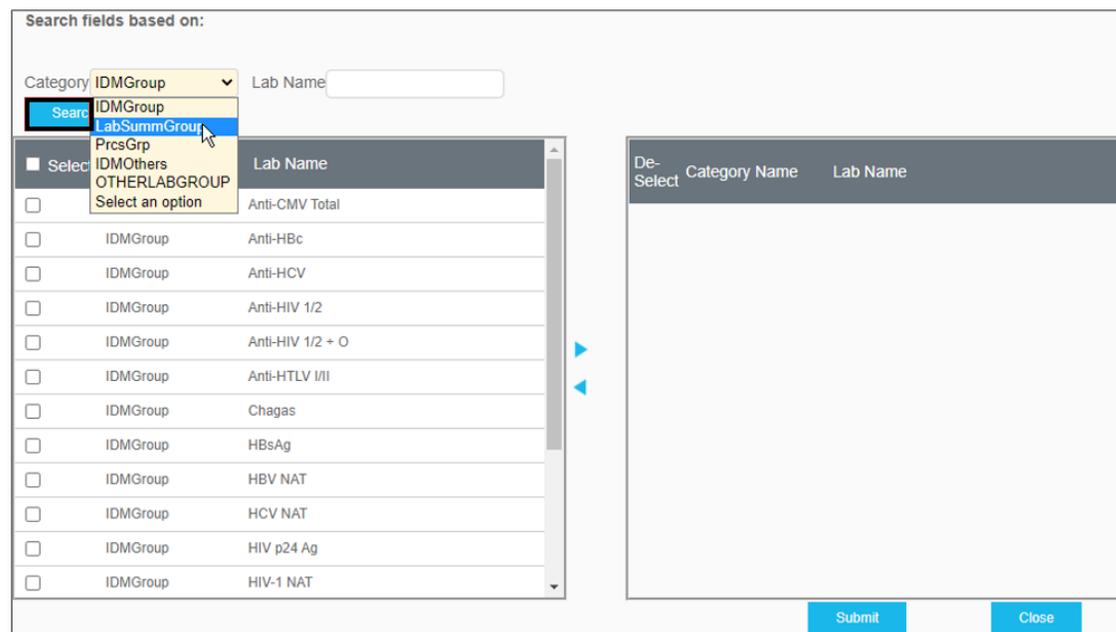


Any existing labs will appear in the Specimen Labs page below the header.



Note: Additionally, the search fields can be used to search the list of labs in the table.

2. Click **Add New**, to add a new lab to the specimen.
3. In the pop-up window, select a Category from the dropdown, optionally enter a Lab Name into the open text field and click **Search**.



- From the list, check checkboxes for the labs used for the sample and then click the right facing arrow to move the labs to the box on the right.

Search fields based on:

Category **LabSummGroup** Lab Name

Search

Select	Category Name	Lab Name
<input checked="" type="checkbox"/>	LabSummGroup	CFU Count
<input checked="" type="checkbox"/>	LabSummGroup	nRBC Absolute Number
<input checked="" type="checkbox"/>	LabSummGroup	Total CD3 Cell Count
<input type="checkbox"/>	LabSummGroup	Total CD34 Cell Count
<input checked="" type="checkbox"/>	LabSummGroup	Total Nucleated Cell Count
<input type="checkbox"/>	LabSummGroup	Viability Result

▶

De-Select	Category Name	Lab Name

Submit **Close**

- Click **Submit** to Submit the labs.

Search fields based on:

Category **LabSummGroup** Lab Name

Search

Select	Category Name	Lab Name
<input type="checkbox"/>	LabSummGroup	CFU Count
<input type="checkbox"/>	LabSummGroup	nRBC Absolute Number
<input type="checkbox"/>	LabSummGroup	Total CD3 Cell Count
<input type="checkbox"/>	LabSummGroup	Total CD34 Cell Count
<input type="checkbox"/>	LabSummGroup	Total Nucleated Cell Count
<input type="checkbox"/>	LabSummGroup	Viability Result

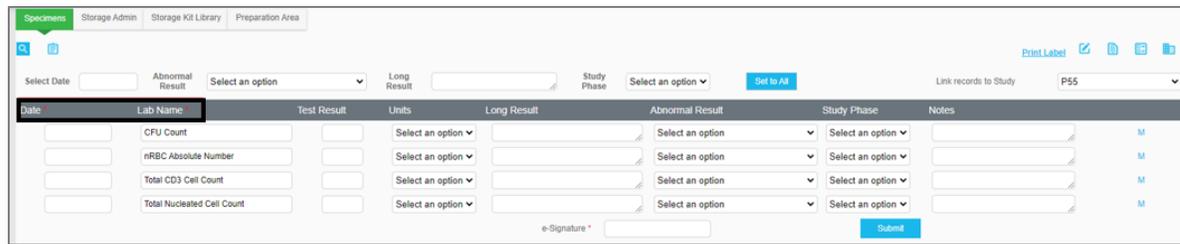
▶

De-Select	Category Name	Lab Name
<input type="checkbox"/>	LabSummGroup	CFU Count
<input type="checkbox"/>	LabSummGroup	nRBC Absolute Number
<input type="checkbox"/>	LabSummGroup	Total CD3 Cell Count
<input type="checkbox"/>	LabSummGroup	Total Nucleated Cell Count

Submit **Close**

- If any labs need to be removed before submitting, check the De-Select checkboxes and then click the left facing arrow before clicking **Submit**. Alternatively, to not submit any labs, click **Close**.

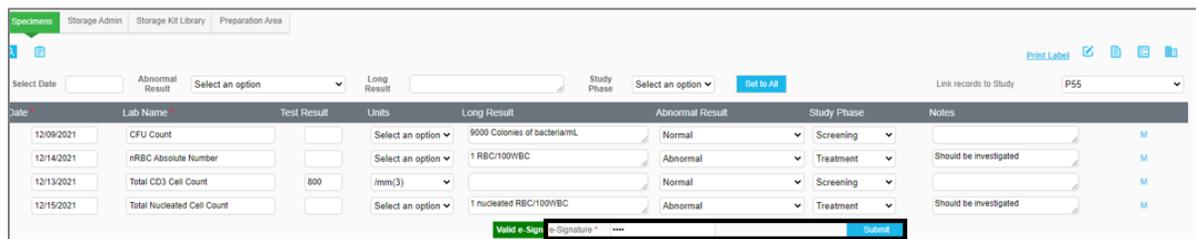
- After submitting the labs, at minimum, the empty fields must be completed for all headers which contain a red asterisk.



- Above the header is a Power Bar which can be used to update all labs with the same data simultaneously. Enter data as applicable and then click **Set to All**.

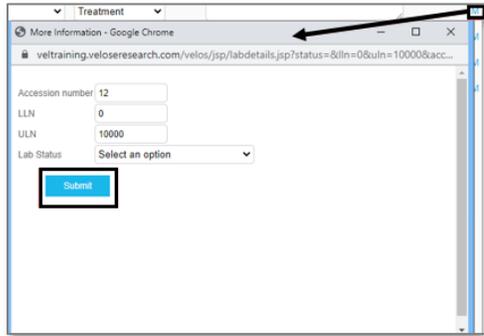
Note: For the Test Result field, either a short result or a long result must be entered, both entries will not be allowed, and an error message will appear when trying to submit. Non-numerical entries must be entered as long results.

- Enter the lab data from left to right, enter your e-Signature, and click **Submit**.



Note: Date field is the date of the lab processing, not when the data was entered.

- a. Optionally, click the **M** link for the lab, and in the pop-up, enter the **Accession number**, Lower Limit of Normal (**LLN**) number, Upper Limit of Normal (**ULN**) number, select the **Lab Status**, and click **Submit**.

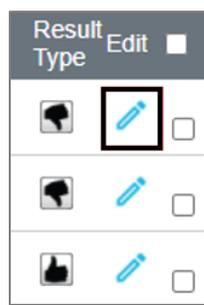


Note: An accession number is a unique identifier given for a DNA or protein sequence.

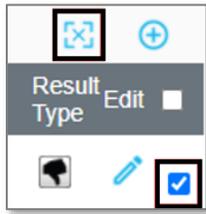
After submitting the lab data, the labs will appear in a table with a thumbs up (normal results) or down (abnormal results) indicating if the result is within or out of limits.

Date	Specimen ID	Category	Lab Name	Test Result	Units	Long Result	Study Phase	Notes	Result Type	Edit
12/15/2021	A1	LabSummGroup	Total Nucleated Cell Count	-	-	1 nucleated RBC/100WBC	Treatment	Should be investigated	👍	✎
12/14/2021	A1	LabSummGroup	nRBC Absolute Number	-	-	1 RBC/100WBC	Treatment	Should be investigated	👍	✎
12/13/2021	A1	LabSummGroup	Total CD3 Cell Count	800	/mm ³	-	Screening	-	👍	✎
12/09/2021	A1	LabSummGroup	CFU Count	-	-	9000 Colonies of bacteria/mL	Screening	-	👍	✎

8. To edit a lab, click edit, make the change(s) in the pop-up window, as needed, add your e-Signature and click **Submit**.



- To delete a lab, check a checkbox and then click **Delete**.

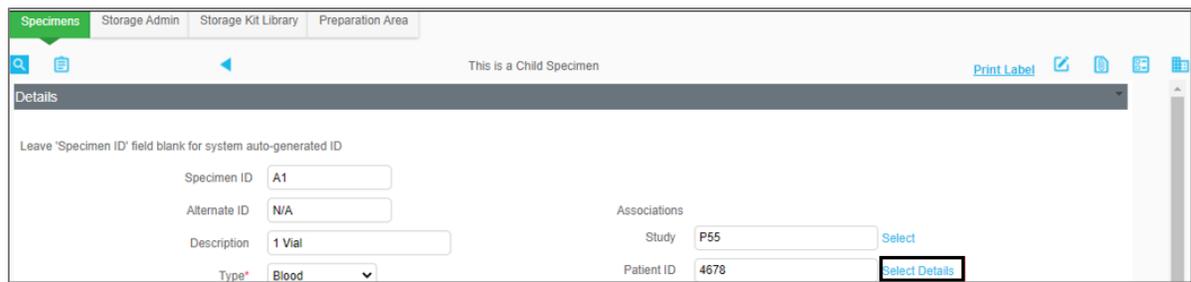


2.4.11.1 Viewing Labs Associated with a Patient

Labs can be viewed for a specific patient from either a patient's Patient Profile or Protocols page or from a Specimen Details page if the specimen is linked to a Patient ID.

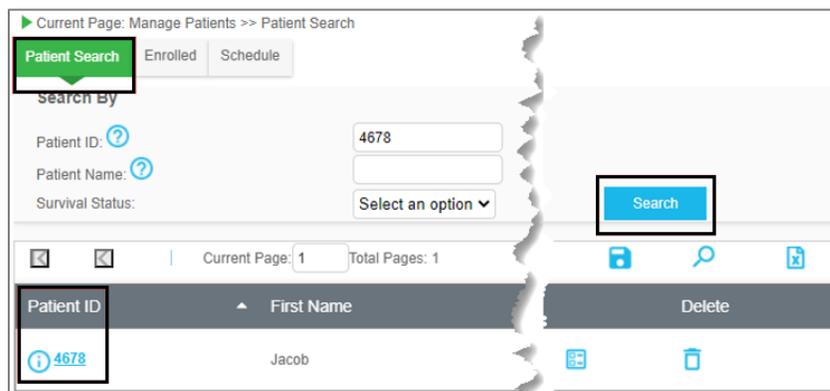
To view labs for a specific patient:

- Click **Select Details** in the Specimen Details page, if there is data in the Patient ID field.



-OR-

Search for a patient in Patient Search and click on a Patient ID link.



- Click the **Patient Profile** tab. Depending on where you accessed from, you will either enter on the Patient's Demographics Tab or Patient's Protocols Tab.

Current Page: Patient >> Demographics

Demographics **Patient Profile** Protocols Reports Appendix Specimens

Patient Details

Patient ID:*

Survival Status:* Death Date:

Current Page: Patient >> Protocols

Demographics **Patient Profile** **Protocols** Reports Appendix Specimens

Pat.ID: 4678 Age: 5 years Gender: Pat.Name: Jacob Hanson Org: WCG - VELOS

To screen/enroll this patient in a new study, select Study and Patient Organization:

This patient has been associated to the following studies:

Study Number	Study Title	Study Contact
P55	Blood Clot Therapy Phase I	Jen Training

- Select **Lab** from the Jump to Form dropdown.

Current Page: Manage Patient >> Form Response Browser

Demographics **Patient Profile** Protocols Reports Appendix Specimens

Pat.ID: 4678 Age: 4 years Gender: Pat.Name: Jacob Hanson Org: WCG - VELOS

Form Name:

Patient Lab Form
Lab

Previous entries for form: "Patient Lab Form" Filter By Date:

Data Entry Date	Form Status
12/16/2021	Work In Progress

1 to 1 of 1 Record(s)

All patient specific labs will appear.

Current Page: Manage Patient >> Form Response Browser

Demographics **Patient Profile** Protocols Reports Appendix Specimens

Pat.ID: 4678 Age: 4 years Gender: Pat.Name: Jacob Hanson Org: WCG - VELOS

Form Name:

Labs Performed: Category: Lab Name: Study: Abnormal Results:

Date	Specimen ID	Category	Lab Name	Test Result	Units	Long Result	Study Phase	Notes	Result Type	Edit
12/15/2021	A1	LabSummGroup	Total Nucleated Cell Count	-	-	1 nucleated RBC/100WBC	Treatment	Should be investigated		
12/14/2021	A1	LabSummGroup	nRBC Absolute Number	-	-	1 RBC/100WBC	Treatment	Should be investigated		
12/13/2021	A1	LabSummGroup	Total CD3 Cell Count	800	/mm ³	-	Screening	-		
12/09/2021	A1	LabSummGroup	CFU Count	-	-	9000 Colonies of bacteria/mL	Screening	-		

1 to 4 of 4 Record(s)

- Alternatively, to view labs for a patient for a specific study, click the **Protocols** tab and then click **Forms** for a specific Study Number.

Current Page: Patient >> Protocols

Demographics Patient Profile **Protocols** Reports Appendix Specimens

Pat ID: 4678 Age: 5 years Gender: Pat Name: Jacob Hanson Org: WCG - VELOS

To screen/enroll this patient in a new study, select Study and Patient Organization: WCG - VELOS

This patient has been associated to the following studies:

Study Number	Study Title	Study Contact	Enrolled On	Last Visit	Done On	Next Visit	Most Recent Status	Current Status
P55	Blood Clot Therapy Phase I	Jen Training	02/25/2021	Initial Visit	02/25/2021	02/01/2021	Active/On Treatment	Active/On Treatment

- Click **Labs** in the dropdown and click **Go**.

Current Page: Study Patient >> Form Response Browser

Demographics Patient Profile **Protocols** Reports Appendix Specimens

Pat ID: 4678 Pt Study ID: 4678 Age: 5 years Gender: Pat Name: Jacob Hanson Org: WCG - VELOS

Screening/Enrollment Schedule Adverse Events Attachments **Forms**

Study Number: P55

Previous entries for form: "MERRS-6 Questionnaire"

Data Entry Date	Study Treatment ARM	MERRS Score	Form Status
02/25/2021	ARM - 231A	8	Completed

1 to 1 of 1 Record(s)

The study specific patient specific labs will appear.

Current Page: Study Patient >> Form Response Browser

Demographics Patient Profile **Protocols** Reports Appendix Specimens

Pat ID: 4678 Pt Study ID: 4678 Age: 4 years Gender: Pat Name: Jacob Hanson Org: WCG - VELOS

Screening/Enrollment Schedule Adverse Events Attachments **Forms** **Lab**

Study Number: P55

Labs Performed:

Category:

Lab Name:

Study:

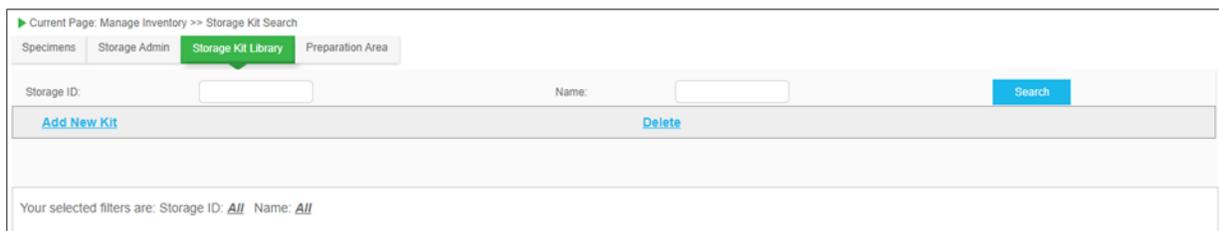
Abnormal Results:

Date	Specimen ID	Category	Lab Name	Test Result	Units	Long Result	Study Phase	Notes	Result Type	Edit
12/15/2021	A1	LabSummGroup	Total Nucleated Cell Count	-	-	1 nucleated RBC/100/WBC	Treatment	Should be investigated		
12/14/2021	A1	LabSummGroup	rRBC Absolute Number	-	-	1 RBC/100/WBC	Treatment	Should be investigated		
12/13/2021	A1	LabSummGroup	Total CD3 Cell Count	800	/mm ³	-	Screening	-		
12/09/2021	A1	LabSummGroup	CFU Count	-	-	9000 Colonies of bacteria/mL	Screening	-		

1 to 4 of 4 Record(s)

2.5 Storage Kit Library

A storage kit is a virtual representation used to collect samples during a study visit. In eSample, a storage kit is used as part of a workflow to manage upcoming collections or for creating specimens for scheduled collections. A storage kit must be linked to an event for a calendar defined in the study setup tab.



The screenshot shows the 'Storage Kit Library' interface. At the top, there is a breadcrumb trail: 'Current Page: Manage Inventory >> Storage Kit Search'. Below this are four tabs: 'Specimens', 'Storage Admin', 'Storage Kit Library' (which is highlighted in green), and 'Preparation Area'. The main area contains two input fields: 'Storage ID:' and 'Name:'. To the right of the 'Name:' field is a blue 'Search' button. Below the input fields is a horizontal bar with two buttons: 'Add New Kit' on the left and 'Delete' on the right. At the bottom of the interface, there is a text box that reads 'Your selected filters are: Storage ID: All Name: All'.

Here, permissioned users can **Search**, **Add New Kit**, or **Delete** an existing Storage Kit.

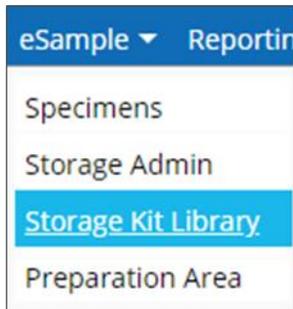
Note: There are two ways to prepare samples when using a storage kit- by [Preparing a Sample with a Storage Kit](#) or to [Prepare Samples from a Patient Schedule](#), if the event has a storage kit associated with it, by using the “Prepare Sample” link. For both options, the process to create the storage kit and then associate the kit to a patient calendar is the same.

2.5.1 Create a Storage Kit

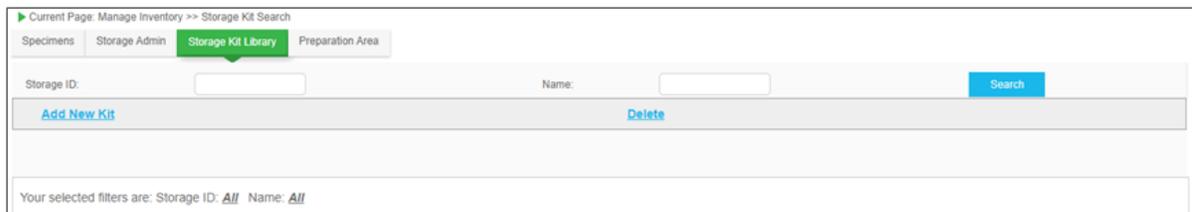
A storage kit can be created in the library to define what types of samples will be collected including expected quantities, processing steps, etc., in a study protocol's sample collection event.

To create a Storage Kit:

1. From the navigation bar, select **eSample** and click **Storage Kit Library**.



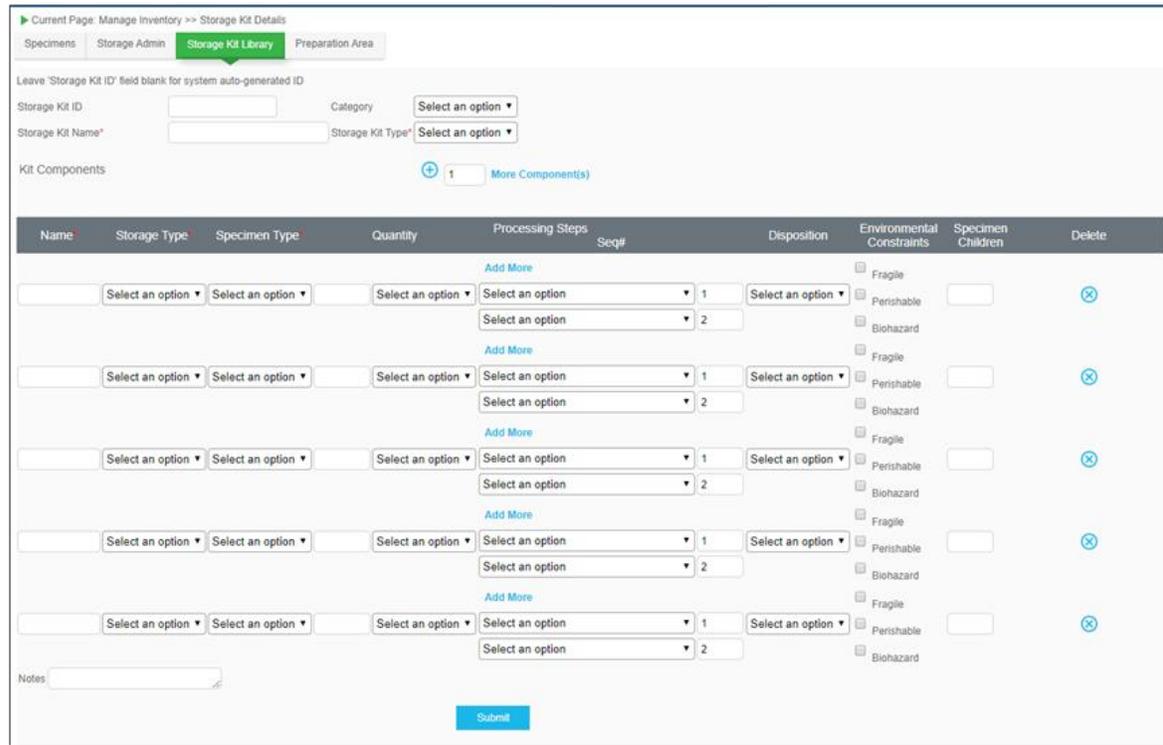
The Storage Kit Library tab displays:



2. Click **Add New Kit**.



The Storage Kit Details page displays:



The following table explains the fields in the Storage Kit Details page.

Section	Field	Description
N/A	Storage Kit ID	The Storage Kit ID. If left blank, the system will auto-generate an ID for the Storage Kit.
N/A	Storage Kit Name	Enter a name in the field to define the Storage Kit. It is recommended to use a short name as it will display on the patient schedule.
N/A	Category	Select a category from the dropdown options available to define the Storage Kit Category.
N/A	Storage Kit Type	Select a type for the Storage Kit from the dropdown options.
Kit Components Grid	Name	Enter a component name.
Kit Components Grid	Storage Type	Select the container for the component from the dropdown options.
Kit Components Grid	Specimen Type	Select the specimen type from the dropdown options.

Section	Field	Description
Kit Components Grid	Quantity	Enter a numeric quantity into the field and select a unit for the measurement in the dropdown options.
Kit Components Grid	Processing Steps	Select a processing step from the dropdown options or select Add More to add a Processing Step that is not preset.
Kit Components Grid	Seq#	Define the sequencing of a component's process steps as defined in the Processing Steps.
Kit Components Grid	Disposition	Select a disposition option from the dropdown, if available, or select Default.
Kit Components Grid	Environmental Constraints	Check a checkbox for one or more applicable environmental constraints including: Fragile, Perishable, and Biohazard.
Kit Components Grid	Specimen Children	Define the specimen children.
Kit Components Grid	Delete	Delete row if appropriate.

Note: The Kit Components Grid, by default, has 5 component rows listed. If less than 5 components are needed for the kit, click the **Delete** button for the rows not needed before submitting. For each row the processing steps and child specimens can be listed. Specimen Children cannot be added to a saved kit. A brand-new kit must be created.

3. Define the Storage Kit as appropriate and click **Submit** to confirm.

2.5.2 Associate Storage Kit to a Patient Calendar

To use a storage kit to prepare samples, the kit needs to be associated to an event that will be listed on a patient calendar. The instructions for this section begin from the Study Setup tab.

Prior to associating a storage kit to a patient schedule, the following are prerequisites for this topic:

- The storage kit has been created
- A calendar in the study setup tab has been created and associated to the study
- A calendar on the Study Setup tab must have the status of "Work in Progress" or "Offline for Editing"

To associate a storage kit to a patient calendar:

1. From the Study Setup tab, click the appropriate calendar name that you wish to associate a storage kit to.

Associated Calendars

Calendars currently associated with this study are: [UPDATE MULTIPLE SCHEDULES](#)

Calendar Name	Refresh Notifications	Description
Structured Patient Visit Calendar		Structured Visit Calendar

Associated Forms

The Event-Visit grid for the selected calendar displays:

Current Page: Calendar >> Event-Visit Grid

Define the Calendar | Select Events | Manage Visits | **Event-Visit Grid** | Coverage Analysis | Patient Cost Items | Milestones Setup

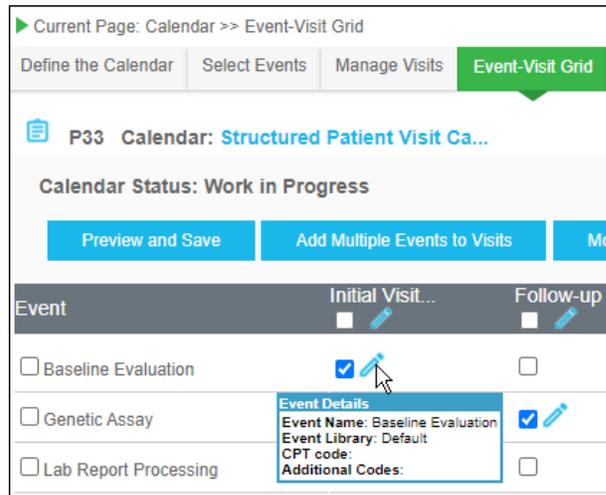
P33 Calendar: Structured Patient Visit Ca...

Calendar Status: Work in Progress

[Preview and Save](#) |
 [Add Multiple Events to Visits](#) |
 [Modify Sequence and Display](#) |
 |
 [Search Event](#) |
 [Clear Search](#)

Event	Initial Visit...	Follow-up and ...	Follow-up Vis...	Lab Follow Up...	Follow-up Vi...	Follow-up Vi...	Follow-up Vi...
<input type="checkbox"/> Baseline Evaluation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Genetic Assay	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Lab Report Processing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Follow Up	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

2. Click the **Edit** button for the desired event and visit that you wish to apply the Storage Kit to.



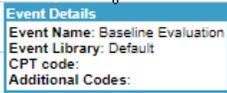
Current Page: Calendar >> Event-Visit Grid

Define the Calendar | Select Events | Manage Visits | **Event-Visit Grid**

P33 Calendar: Structured Patient Visit Ca...

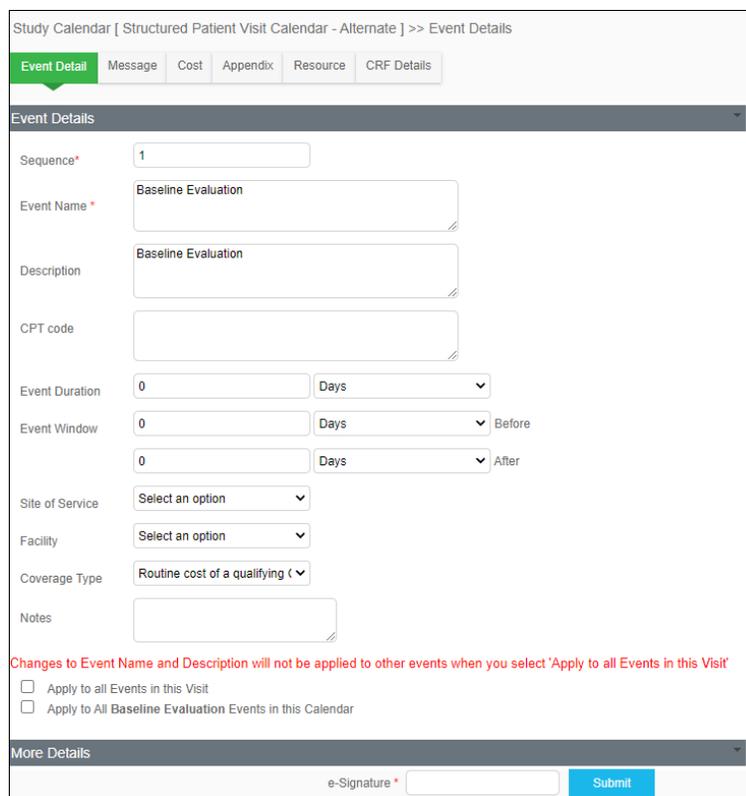
Calendar Status: Work in Progress

Preview and Save | Add Multiple Events to Visits | Mo

Event	Initial Visit...	Follow-up a
<input type="checkbox"/> Baseline Evaluation	<input checked="" type="checkbox"/> 	<input type="checkbox"/>
<input type="checkbox"/> Genetic Assay		<input checked="" type="checkbox"/> 
<input type="checkbox"/> Lab Report Processing		<input type="checkbox"/>

Event Details
 Event Name: Baseline Evaluation
 Event Library: Default
 CPT code:
 Additional Codes:

The Study Calendar Event Details page displays:



Study Calendar [Structured Patient Visit Calendar - Alternate] >> Event Details

Event Detail | Message | Cost | Appendix | Resource | CRF Details

Event Details

Sequence*

Event Name*

Description

CPT code

Event Duration Days

Event Window Days Before

Days After

Site of Service

Facility

Coverage Type

Notes

Changes to Event Name and Description will not be applied to other events when you select 'Apply to all Events in this Visit'

Apply to all Events in this Visit

Apply to All Baseline Evaluation Events in this Calendar

More Details

e-Signature*

3. Select the **Resource** tab.

Study Calendar [Structured Patient Visit Calendar - Alternate] >> Event Resource

Event Detail Message Cost Appendix **Resource** CRF Details

Event Name :Baseline Evaluation

Resources linked with this Event: [Select/Edit Role type](#) [Select User](#) [Select Storage Kit](#)

Role Types	Duration	Notes	Delete
Users			
Delete			

Storage Kits linked with this Event:

Storage Kit ID	Storage Kit Name	Delete

4. On the Resource tab, click **Select Storage Kit**.

Study Calendar [Structured Patient Visit Calendar - Alternate] >> Event Resource

Event Detail Message Cost Appendix **Resource** CRF Details

Event Name :Baseline Evaluation

Resources linked with this Event: [Select/Edit Role type](#) [Select User](#) [Select Storage Kit](#)

Role Types	Duration	Notes	Delete
Users			
Delete			

Storage Kits linked with this Event:

Storage Kit ID	Storage Kit Name	Delete

The Event Storage Kit window opens:

Storage Kit: [Select Storage Kit](#)

Apply to all Events in this Visit

Apply to All Baseline Evaluation Events in this Calendar

[Submit](#)

- Click **Select Storage Kit**.

Storage Kit: **Select Storage Kit**

Apply to all Events in this Visit

Apply to All Baseline Evaluation Events in this Calendar

Submit

- In the lookup window, click **Select** to select the appropriate Storage Kit to associate with the previously selected event.

Submit **Close**

No Rows Selected.

Storages

Search: All Records All Contains **Search** [Reset Filter](#)

Filter Criteria: None

1 to 4 of 4 Record(s) [Select All Displayed](#) [Remove Selected Record](#)

	Storage id	Storage name	Parent storage id	Parent storage name	Study number	
Select	1832	ACW-OSA-urinecupsample	-	-	-	
Select	1838	Purple-Urine cup	-	-	-	
Select	387	storagekitdemo	-	-	-	

- Once the Storage Kit has been selected, click **Submit**.

Submit **Close**

ACW-OSA-urinecupsample

Storages

Search: All Records All Contains **Search** [Reset Filter](#)

Filter Criteria: None

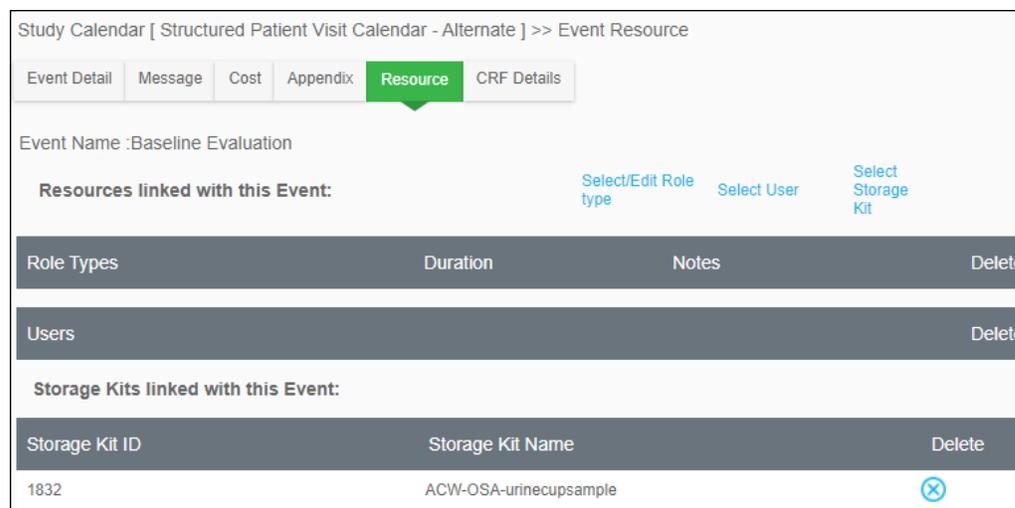
1 to 4 of 4 Record(s) [Select All Displayed](#) [Remove Selected Record](#)

	Storage id	Storage name	Parent storage id	Parent storage name	Study number	
Select	1832	ACW-OSA-urinecupsample	-	-	-	

- On the Event Storage Kit window, click **Submit** to confirm Storage Kit selection. Additionally, on this window is where permissioned users may select to **Apply to all Events in this Visit** or **Apply to All Baseline Evaluation Events in this Calendar**.



The associated Storage Kit displays on the Study Calendar Event Resource page:



Role Types	Duration	Notes	Delete

Storage Kit ID	Storage Kit Name	Delete
1832	ACW-OSA-urinecupsample	

2.5.3 Edit a Storage Kit

Storage Kits can be edited if a mistake was made or additional information needs to be added. The instructions for this section begin at the Storage Kit Library tab.

To edit a storage kit:

- From the Storage Kit Library tab, **Search** for the appropriate storage kit.



- From the search results, select the desired Storage Kit ID.

ID	Name
387	storagekitdemo

The Storage Kit Details page displays:

Current Page: Manage Inventory >> Storage Kit Details

Specimens | Storage Admin | **Storage Kit Library** | Preparation Area

Leave 'Storage Kit ID' field blank for system auto-generated ID

Storage Kit ID: Category:

Storage Kit Name*: Storage Kit Type*:

Kit Components + 1 More Component(s)

Name	Storage Type	Specimen Type	Quantity	Processing Steps	Seq#	Disposition	Environmental Constraints	Delete
bloodgsample	<input type="text" value="Bag"/>	<input type="text" value="Blood"/>	<input type="text" value="2.0"/> <input type="text" value="Litre"/>	<input type="text" value="Select an option"/>	<input type="text" value="1"/>	<input type="text" value="Select an option"/>	<input checked="" type="checkbox"/> Fragile <input checked="" type="checkbox"/> Perishable <input type="checkbox"/> Biohazard	
Child Specimen for bloodgsample								
bloodgsample	<input type="text" value="Bag"/>	<input type="text" value="Blood"/>	<input type="text" value="1.0"/> <input type="text" value="Litre"/>	<input type="text" value="Select an option"/>	<input type="text" value="1"/>	<input type="text" value="Select an option"/>	<input type="checkbox"/> Fragile <input type="checkbox"/> Perishable <input type="checkbox"/> Biohazard	Set to All
bloodgsample	<input type="text" value="Bag"/>	<input type="text" value="Blood"/>	<input type="text" value="1.0"/> <input type="text" value="Litre"/>	<input type="text" value="Select an option"/>	<input type="text" value="1"/>	<input type="text" value="Select an option"/>	<input type="checkbox"/> Fragile <input type="checkbox"/> Perishable <input type="checkbox"/> Biohazard	
freezersample1	<input type="text" value="Freezer"/>	<input type="text" value="Plasma"/>	<input type="text" value="1.0"/> <input type="text" value="Millilitre"/>	<input type="text" value="Select an option"/>	<input type="text" value="1"/>	<input type="text" value="Select an option"/>	<input checked="" type="checkbox"/> Fragile <input checked="" type="checkbox"/> Perishable <input checked="" type="checkbox"/> Biohazard	

Notes:

Note:

- Components cannot be deleted.
- Children cannot be added to existing components.
- For existing child components, use the **Set to All**. To use the link, the edits must be made for the first child listed, then click the link.

- Edit information as appropriate and click **Submit** to confirm.

2.5.4 Delete Storage Kit

A Storage Kit can be deleted if it was made in error or no longer needed. The instructions for this section begin at the Storage Kit Library tab. Use caution when deleting storage kits.

To edit a storage kit:

1. From the Storage Kit Library tab, search for the appropriate storage kit.



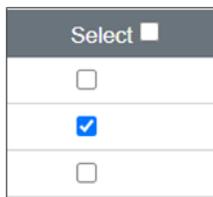
Current Page: Manage Inventory >> Storage Kit Search

Specimens | Storage Admin | **Storage Kit Library** | Preparation Area

Storage ID: Name: [Search](#)

[Add New Kit](#) [Delete](#)

2. From the search results, select the desired Storage Kit **checkbox** in the Select column.



Select
<input type="checkbox"/>
<input checked="" type="checkbox"/>
<input type="checkbox"/>

3. Click **Delete**.



Current Page: Manage Inventory >> Storage Kit Search

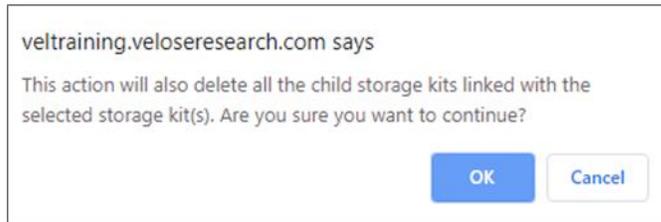
Specimens | Storage Admin | **Storage Kit Library** | Preparation Area

Storage ID: Name: [Search](#)

[Add New Kit](#) [Delete](#)

ID	Name	Category	Select
2225	Storage Kit A		<input checked="" type="checkbox"/>

A confirmation pop up will open asking to confirm deletion of the storage kit:

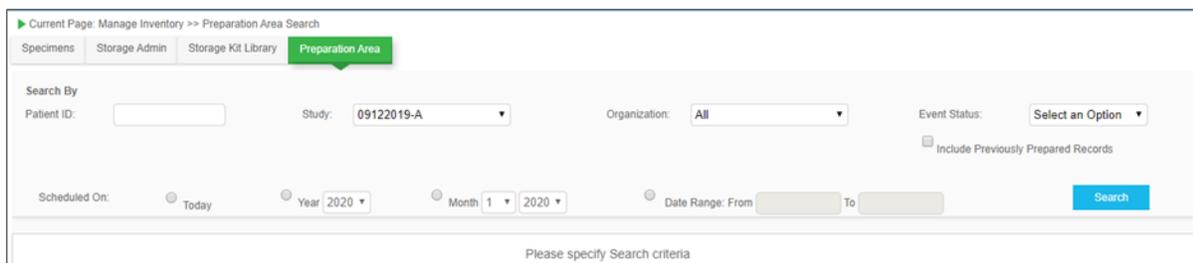


4. Click **OK**.
5. Enter your e-Signature and click **Submit** to confirm.



2.6 Preparing a Sample with a Storage Kit

In eSample, there are two options for preparing samples when using a storage kit: Preparation Area tab and Prepare Sample link from Patient Schedule. For both options, the process to create the storage kit and associate is the same. The difference is how the specimens are prepared.



2.6.1 Preparation Area Tab

The Preparation Area tab is recommended when samples need to be created to prepare labels for an upcoming collection visit in bulk.

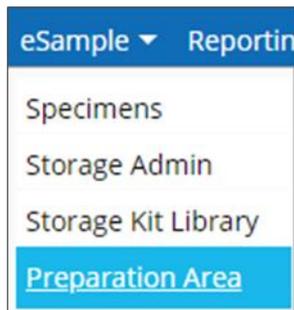
The bulk specimens can be for:

- Collections on a specific date
- Collections for a specific patient
- Bulk sample updates and searching for bulk samples

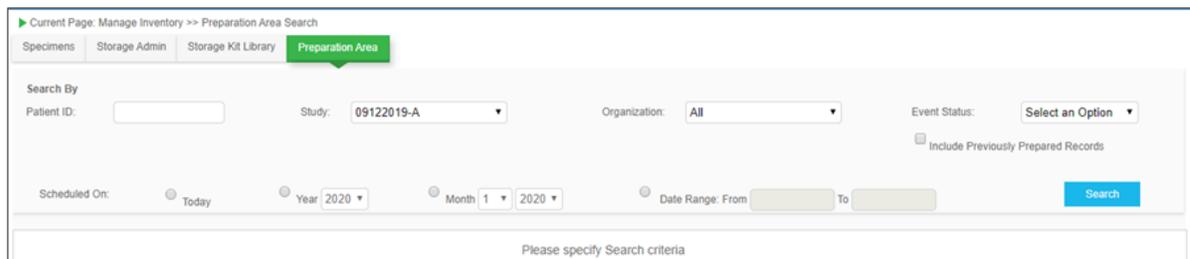
Note: Prior to managing or creating a Specimen here, the patient calendar should have already been created and assigned to the study. If the creation and association has not been completed, **refer to the Study Management>Study Setup Tab>Associated Calendars section in the eResearch User Guide.** Additionally, a patient schedule with a storage kit must already be generated for the patient. If not, **refer to Patient Management>Manage an Existing Patient>Patient Schedules section in the eResearch User Guide.**

To create a sample through the Preparation Area tab:

1. In the navigation menu, select **eSample** and click **Preparation Area**.



The Preparation Area page displays:



Current Page: Manage Inventory >> Preparation Area Search

Specimens Storage Admin Storage Kit Library Preparation Area

Search By

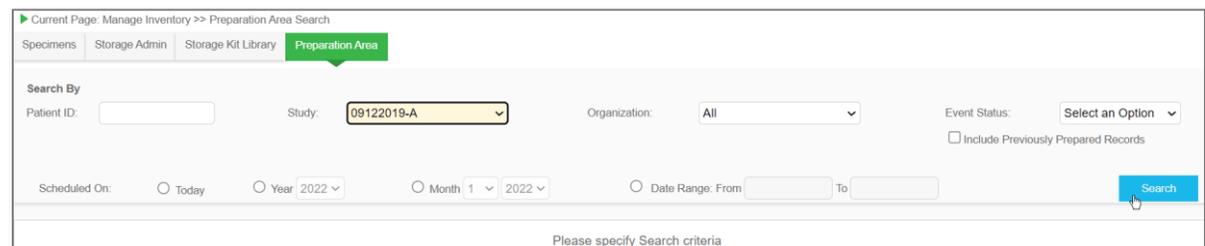
Patient ID: Study: 09122019-A Organization: All Event Status: Select an Option

Include Previously Prepared Records

Scheduled On: Today Year 2020 Month 1 2020 Date Range: From To

Please specify Search criteria

2. Use the filters and click **Search**.



Current Page: Manage Inventory >> Preparation Area Search

Specimens Storage Admin Storage Kit Library Preparation Area

Search By

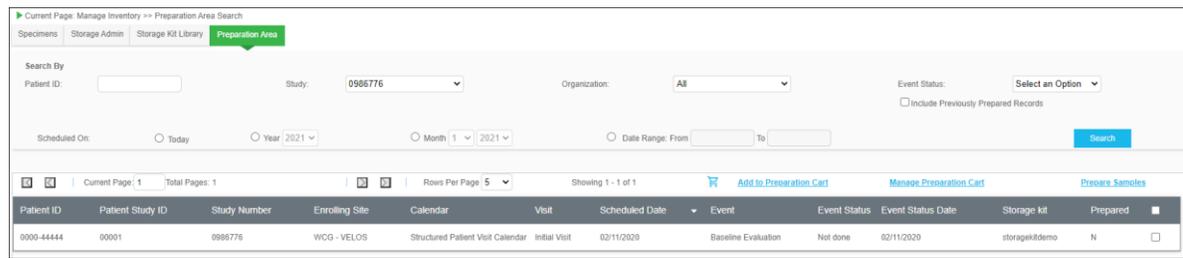
Patient ID: Study: 09122019-A Organization: All Event Status: Select an Option

Include Previously Prepared Records

Scheduled On: Today Year 2022 Month 1 2022 Date Range: From To

Please specify Search criteria

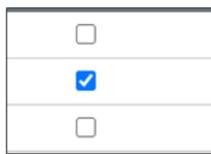
The Search results display:



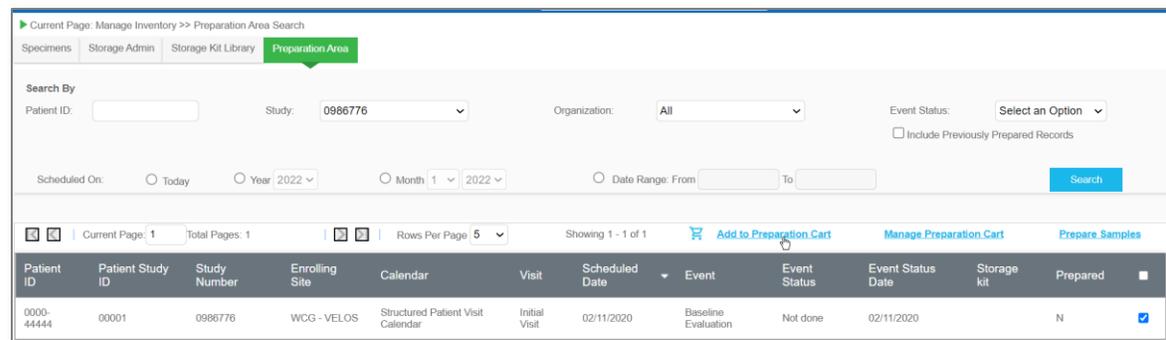
Patient ID	Patient Study ID	Study Number	Enrolling Site	Calendar	Visit	Scheduled Date	Event	Event Status	Event Status Date	Storage kit	Prepared
0000-44444	00001	0986776	WCG - VELOS	Structured Patient Visit Calendar	Initial Visit	02/11/2020	Baseline Evaluation	Not done	02/11/2020	storagekitdemo	N

Note: By default, the results only display the event(s) based on the criteria that have not been prepared.

3. Select the appropriate patient and event using the checkbox(es).

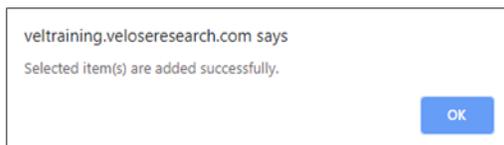


4. Click **Add to Preparation Cart**.



Patient ID	Patient Study ID	Study Number	Enrolling Site	Calendar	Visit	Scheduled Date	Event	Event Status	Event Status Date	Storage kit	Prepared
0000-44444	00001	0986776	WCG - VELOS	Structured Patient Visit Calendar	Initial Visit	02/11/2020	Baseline Evaluation	Not done	02/11/2020	storagekitdemo	N

A popup notification displays:



5. Click **OK**.

6. Click Prepare Samples.

Current Page: Manage Inventory >> Preparation Area Search

Specimens | Storage Admin | Storage Kit Library | **Preparation Area**

Search By

Patient ID: Study: Organization: Event Status:

Include Previously Prepared Records

Scheduled On: Today Year Month Date Range: From To

Current Page: 1 | Total Pages: 1 | Rows Per Page: 5 | Showing 1 - 1 of 1 | [Add to Preparation Cart](#) | [Manage Preparation Cart](#) | [Prepare Samples](#)

Patient ID	Patient Study ID	Study Number	Enrolling Site	Calendar	Visit	Scheduled Date	Event	Event Status	Event Status Date	Storage kit	Prepared
0000-44444	00001	0986776	WCG - VELOS	Structured Patient Visit Calendar	Initial Visit	02/11/2020	Baseline Evaluation	Not done	02/11/2020	N	<input checked="" type="checkbox"/>

The Prepare Samples window displays:

Prepare Samples and Print Label(s) e-Signature

Get this window to select the following information to prepare specimen(s) by default records will be printed for all prepared specimen(s). Patient Use Print Label(s) check box if you wish to use for print label(s) selectively.

Patient ID	Study Number	Calendar	Visit	Scheduled Date	Event	Storage Kit	Patient Study ID	Event Status	Enrolling Site	Event Status Date	Print Label
0000-44444	0986776	Structured Patient Visit Calendar	Initial Visit	02/11/2020	Baseline Evaluation	storagekitdemo	00001	Not done	WCG - VELOS	02/11/2020	<input checked="" type="checkbox"/>

Note: The Prepare Specimens window will list all the selected prepared specimens. By default, the prepared specimens will be selected. If a prepared specimen should not be created, then uncheck it, before entering e-Signature and clicking **Submit**.

2.6.2 Prepare Samples from a Patient Schedule

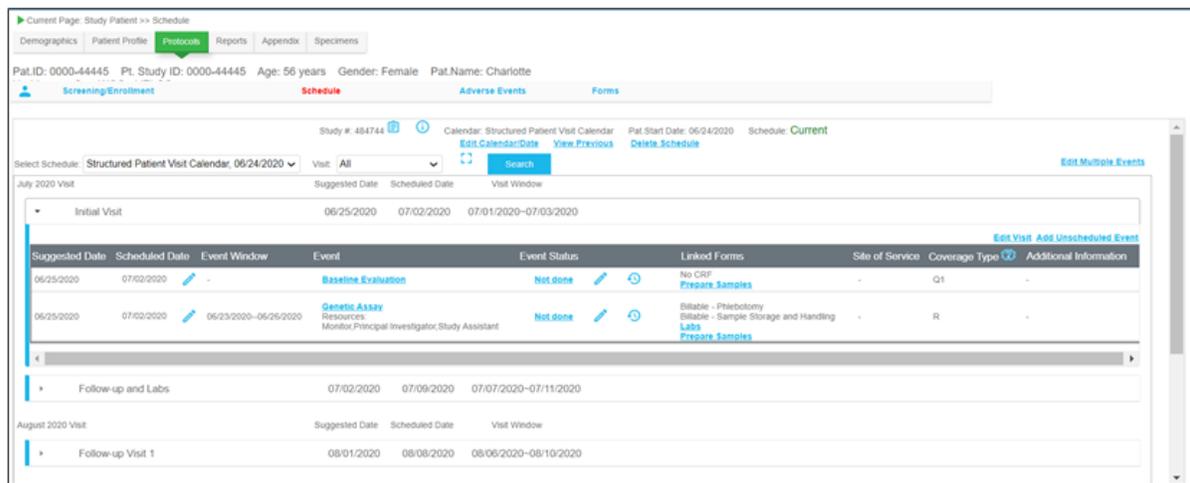
This option is ideal when labels do not need to be created prior to the visit or if users prefer to work with one patient at a time. The samples will be prepared based on a kit after the collection visit. The Prepare Samples link displays a link for the storage kit associated to the event. This link should be used to prepare samples for a specific patient in association with the completion of an event.

This section will cover how to create Specimens from the Prepare Samples link from the Patient Schedule and the instructions for this section begin at the Patient Protocols tab.

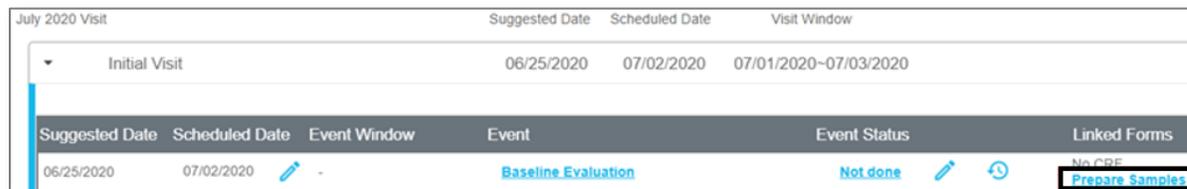
Note: Before managing a specimen through this section, the patient calendar should have already been created and assigned to the study. If the creation and association has not been completed, **refer to the Study Management>Study Setup Tab>Associated Calendars section in the eResearch User Guide**. Additionally, a patient schedule with a storage kit must be generated for the patient. If not, **refer to the Patient Management>Manage an Existing Patient>Patient Schedules section in the eResearch User Guide**

To create a sample from a Patient Schedule:

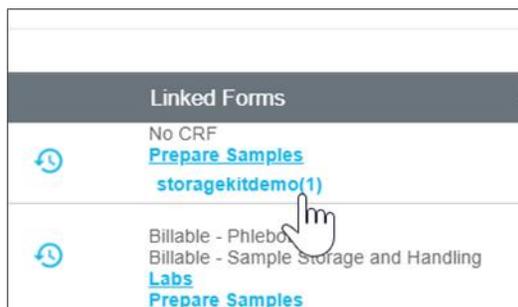
1. From the Protocols tab, use the **arrow** button to expand the desired visit and view associated visit events.



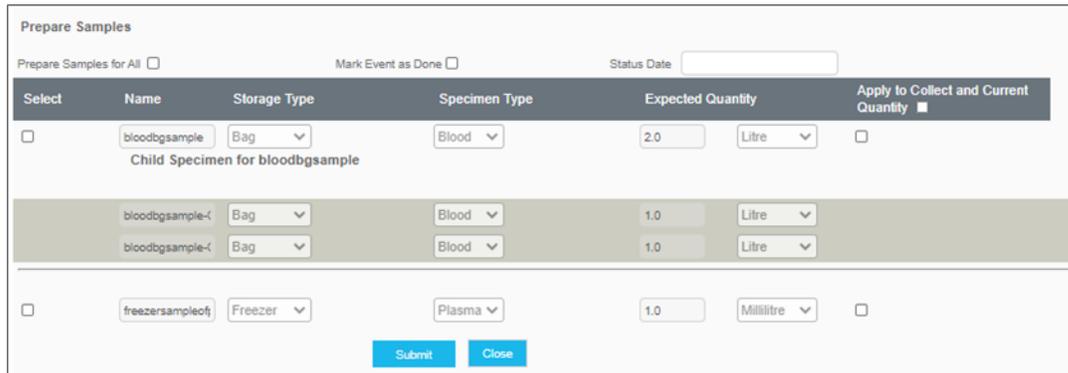
2. On the Event-Visit grid, click **Prepare Samples** to expand the associated Storage Kits.



3. Click the **Storage Kit**.

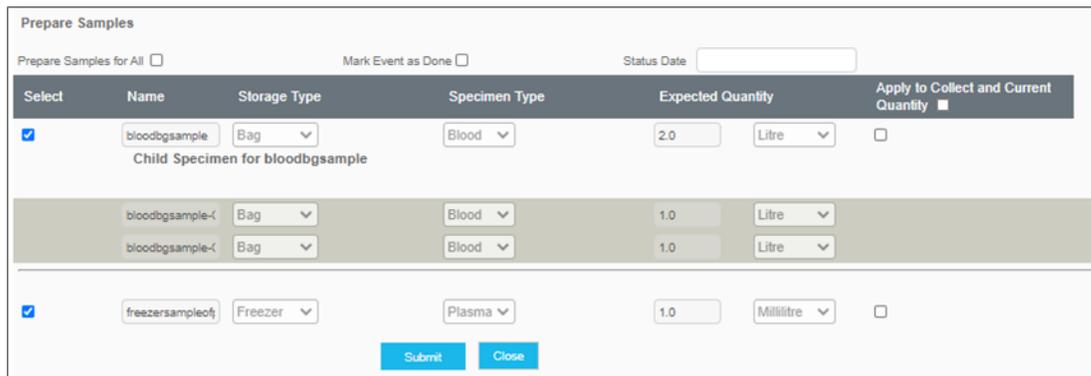


The Manage Inventory window opens:



Select	Name	Storage Type	Specimen Type	Expected Quantity	Apply to Collect and Current Quantity
<input type="checkbox"/>	bloodbgsample Child Specimen for bloodbgsample	Bag	Blood	2.0 Litre	<input type="checkbox"/>
	bloodbgsample<	Bag	Blood	1.0 Litre	
	bloodbgsample<	Bag	Blood	1.0 Litre	
<input type="checkbox"/>	freezersampleofj	Freezer	Plasma	1.0 Millilitre	<input type="checkbox"/>

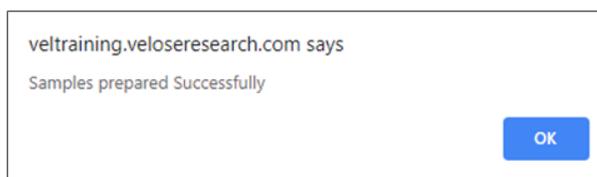
4. Enter a **Status Date**, check the checkbox(es) in the Select column, as applicable, and define the Samples as appropriate before clicking **Submit** to save.



Select	Name	Storage Type	Specimen Type	Expected Quantity	Apply to Collect and Current Quantity
<input checked="" type="checkbox"/>	bloodbgsample Child Specimen for bloodbgsample	Bag	Blood	2.0 Litre	<input type="checkbox"/>
	bloodbgsample<	Bag	Blood	1.0 Litre	
	bloodbgsample<	Bag	Blood	1.0 Litre	
<input checked="" type="checkbox"/>	freezersampleofj	Freezer	Plasma	1.0 Millilitre	<input type="checkbox"/>

Note: If the sample was not selected in the Select column, a dialogue window will open and prevent Sample submission until at least one Specimen is selected.

A window confirming Sample preparation appears:



veltraining.veloseresearch.com says
Samples prepared Successfully

OK

5. Click **OK**.

2.7 eSample Reports and Ad-hoc Queries

In Report Central, there are many reports available which provide information for data managed in this module. These reports are found in the Biospecimen reporting type options. **Refer to the Reports, Ad-hoc Queries & Dashboard>Report Central section in the eResearch User Guide**, for more information on these reports. And, refer to the **Reports, Ad-hoc Queries & Dashboard>Report Central>Access and Run Reports section in the eResearch User Guide** for steps to generate these reports.

2.7.1 eSample Biospecimen Reports

There are many Biospecimen reports in Report Central for use with eSample.

▶ Current Page: Report Central

Select Report Type Biospecimen ▼

Inventory Reports

Specimen Storage Association

Storage

Storage Capacity Discrepancy

Storage Status Discrepancy By Child Storage Status

Storage Summary

Storage Trail & Occupancy

Specimen

Depleted Specimens

Specimen Listing

Specimen Listing with Calendar

Specimen Processing History

Specimen Provider Association

Specimen Status History

Specimen Trail (Non Study Specimens)

Specimen Trail (Study Specimens)

Specimens by Patient

Specimens by Study

Examples of the output for some types of Biospecimen reports are as follows:

- **Inventory Report: Specimen Storage Association**

- Shows the association of the specimens by study or non-study, and can be further filtered by storage location, organization, and dates

Download the report in: 

Specimen Storage Association						
Selected Date Range Filter: [Date Range: ALL] [Organization: WCG - VELOS][Study: 961][Storage: ALL]						
Total Matching Rows: 2						
Storage Details						
Storage ID: 2131		Parent Storage ID: DEMO7		Storage Name: DEMO7_Style2-A1		Child Storage Count: 0
Storage Type: Cup						
Specimen ID	Child Specimen Count	Parent Specimen ID	Study Number	Specimen Type	Specimen Quantity	
152_01	0	152	961	Urine		
Storage Details						
Storage ID: 2134		Parent Storage ID: DEMO7		Storage Name: DEMO7_Style2-B1		Child Storage Count: 0
Storage Type: Cup						
Specimen ID	Child Specimen Count	Parent Specimen ID	Study Number	Specimen Type	Specimen Quantity	
152	1		961	Urine		

- **Storage: Storage Summary**

- Shows the percentage by type of storage container and percentage by type of available containers, along with each container's specific storage information, for selected studies or study, and can be further filtered by storage ID

Download the report in: 

Specimen Storage Association						
Selected Date Range Filter: [Date Range: ALL] [Organization: WCG - VELOS][Study: 961][Storage: ALL]						
Total Matching Rows: 2						
Storage Details						
Storage ID: 2131		Parent Storage ID: DEMO7		Storage Name: DEMO7_Style2-A1		Child Storage Count: 0
Storage Type: Cup						
Specimen ID	Child Specimen Count	Parent Specimen ID	Study Number	Specimen Type	Specimen Quantity	
152_01	0	152	961	Urine		
Storage Details						
Storage ID: 2134		Parent Storage ID: DEMO7		Storage Name: DEMO7_Style2-B1		Child Storage Count: 0
Storage Type: Cup						
Specimen ID	Child Specimen Count	Parent Specimen ID	Study Number	Specimen Type	Specimen Quantity	
152	1		961	Urine		

- **Storage: Storage Trail & Occupancy**

- Shows the level of storage along with details of the storage item(s) selected

Download the report in: 

Storage Trail & Occupancy													
Selected Date Range Filter: [Date Range: ALL] [Storage: TT1-1A]													
Legend: Level 1 Level 2 Level 3 Level 4 Level 5 Level 6 Level 7 Level 8 Level 9 Level 10													
Tip: The Storage selected in the filter is considered to be a top level storage/reference point. Subsequent levels are calculated accordingly.													
Top Level: Level 1 Storages: 1 Level 2 Storages: 0 Level 3 Storages: 0 Level 4 Storages: 0 Level 5 Storages: 0 Level 6 Storages: 0 Level 7 Storages: 0 Level 8 Storages: 0 Level 9 Storages: 0 Level 10 Storages: 0													
Storage ID	Storage Name	Storage Alternate ID	Parent Storage ID	Storage Dimensions	Child Storage Count	Storage Type	Storage Status (specified)	Study Number	Storage Capacity (specified)	Storage Capacity (max)	Specimen Count (Per Unit)	Specimen Count (Cumulative)	Occupancy
1883	TT1-1A		4000		0	Test Tube	Available	[No Study Specified]	1	1	0	0	00%

- Specimen: Depleted Specimens

- Shows a study, studies, or non-study specimens that have been depleted, by specimen type and anatomic site, along with quantity details

Download the report in   

Depleted Specimens

Selected Date Range Filter: [Date Range:ALL] [Organization:WCG - VELOS][Study:961] Total Matching Rows: 1

By Study Number: 961 | By Specimen Type: Urine | By Anatomic Site: -

Specimen ID	Specimen Alternate ID	Study Number	Specimen Type	Collection Date	Anatomic Site	Original Quantity	Quantity Units
152		961	Urine	10/11/2021	-	0.00	Millilitre

- Specimen: Specimens Listing

- Shows a listing of specimens by Study/Non-Study and details like specimen type, status, anatomic site, along with details for each specimen

Download the report in   

Specimen Listing

Selected Filters: [Date Range:ALL] [Organization:WCG - VELOS][Study:961] Total Matching Rows: 2

By Specimen Kind: Patient Study | By Specimen Type: Urine | By Specimen Status: Processed, Depleted | By Anatomic Site: -

Specimen Kind	Specimen ID	Specimen Alternate ID	Child Specimen Count	Parent Specimen ID	Specimen Type	Specimen Status	Specimen Quantity	Specimen Collection Date	Specimen Organization	Specimen Anatomic Site	Specimen Tissue Side	Specimen Pathological Status	Pathologist	Collecting Technician	Surgeon	Processing Technician	Study Number	Patient ID	Is a Child?	Parent Specimen ID	Storage ID	Storage Name	Storage Type
Patient Study	152_01		0	152	Urine	Processed		10/11/2021	WCG - VELOS								961	0000-44445	Yes	152	2131	DEMO7_Shye2_A1	Cup
Patient Study	152		1		Urine	Depleted		10/11/2021	WCG - VELOS								961	0000-44445	No		2134	DEMO7_Shye2_B1	Cup

- Specimen: Specimen Listing with Calendar

- Shows specimen information along with calendars they are associated to

Download the report in   

Specimen Listing with Calendar

Selected Filters: [Date Range:ALL] [Organization:WCG - VELOS][Study:961] Total Matching Rows: 2

By Specimen Kind: Patient Study | By Specimen Type: Urine | By Specimen Status: Processed, Depleted | By Anatomic Site: -

Show 10 entries

Specimen Kind	Specimen ID	Specimen Alternate ID	Child Specimen Count	Parent Specimen ID	Specimen Type	Specimen Status	Specimen Quantity	Specimen Collection Date	Specimen Organization	Specimen Anatomic Site	Specimen Tissue Side	Specimen Pathological Status	Pathologist	Collecting Technician	Surgeon	Processing Technician	Study Number	Patient ID	Is a Child?	Parent Specimen ID	Storage ID	Storage Name	Storage Type	Calendar Name	Event Name	Visit Name
Patient Study	152_01		0	152	Urine	Processed	0.00	10/11/2021	WCG - VELOS								961	0000-44445	Yes	152	2131	DEMO7_Shye2_A1	Cup	WCG - VELOS - Patient Visit Calendar	Baseline - Pre-Op	Initial Visit
Patient Study	152		1		Urine	Depleted	0.00	10/11/2021	WCG - VELOS								961	0000-44445	No		2134	DEMO7_Shye2_B1	Cup	WCG - VELOS - Patient Visit Calendar	Baseline - Pre-Op	Initial Visit

Showing 1 to 2 of 2 entries

Previous Next

- **Specimen: Specimen Processing History**

- Shows listing of specimens by Study/Non-Study and their respective processing details and history

Download the report in:   

Specimen Processing History									
Selected Filter(s): [Date Range:ALL] [Organization:WCG - VELOS][Study:961]									
Total Matching Rows: 4									
By Specimen Status									
Processed : 4 									
Specimen Details									
Specimen ID: 152		Parent Specimen ID: Anatomic Site:			Specimen Alternate ID: Child Specimen Count: 1 Collection Date: 11-OCT-21		Study Number: 961 Specimen Type: Urine Original Quantity: 0.00 Millilitre		
Specimen Status	Procedure Type	Hand-Off Date	Process Date	Process Quantity	Process Units	Recipient	Status By	For Study	
Processed	Aliquot		25-OCT-21				Susan Training2	961	
Specimen Details									
Specimen ID: 152_01		Parent Specimen ID: 152 Anatomic Site:			Specimen Alternate ID: Child Specimen Count: 0 Collection Date: 11-OCT-21		Study Number: 961 Specimen Type: Urine Original Quantity: 0.00 Millilitre		
Specimen Status	Procedure Type	Hand-Off Date	Process Date	Process Quantity	Process Units	Recipient	Status By	For Study	
Processed	Aliquot		25-OCT-21				Susan Training2	961	
Processed				10.00	Millilitre				
Processed				0.00	Millilitre				

- **Specimen: Specimen Provider Association**

- Shows listing of specimens by Study/Non-Study by pathologist

Download the report in:   

Specimen Provider Association								
Selected Date Range Filter: [Date Range:ALL] [Organization:WCG - VELOS][Study:961]								
Total Matching Rows: 2								
By Pathologist				By Surgeon				
[Not specified] : 2 				[Not specified] : 2 				
Specimen ID	Specimen Alternate ID	Study Number	Pathologist	Surgeon	Specimen Type	Collection Date	Anatomic Site	Specimen Quantity
152_01		961	[Not specified]	[Not specified]	Urine	10/11/2021		0.00 Millilitre
152		961	[Not specified]	[Not specified]	Urine	10/11/2021		0.00 Millilitre
Report By: Susan Training2								Date: 07/27/2022 14:42:51

- Specimen: Specimen Status History

- Shows listing of specimens by Study/Non-Study and their respective status history

Download the report in:   

Specimen Status History

Selected Filter(s): [Date Range:ALL] [Organization:WCG - VELOS][Study:961] Total Matching Rows: 8

By Specimen Status

Processed : 4 
 Pending : 2 
 Depleted : 2 

Specimen Details

Specimen ID: 152 Parent Specimen ID: 152 Specimen Alternate ID: Child Specimen Count: 1 Study Number: 961
 Anatomic Site: Collection Date: 11-OCT-21 Specimen Type: Urine Original Quantity: 0.00 Millilitre

Specimen Status	Procedure Type	Hand-Off Date	Process Date	Process Quantity	Process Units	Recipient	Status By	For Study
Processed	Aliquot		25-OCT-21				Susan Training2	961
Pending							Susan Training2	961
Depleted				0.00	Millilitre		Susan Training2	961

Specimen Details

Specimen ID: 152_01 Parent Specimen ID: 152 Specimen Alternate ID: Child Specimen Count: 0 Study Number: 961
 Anatomic Site: Collection Date: 11-OCT-21 Specimen Type: Urine Original Quantity: 0.00 Millilitre

Specimen Status	Procedure Type	Hand-Off Date	Process Date	Process Quantity	Process Units	Recipient	Status By	For Study
Processed	Aliquot		25-OCT-21				Susan Training2	961
Pending							Susan Training2	961
Depleted				22.50	Millilitre		Susan Training2	961
Processed				10.00	Millilitre			
Processed				0.00	Millilitre			

- Specimen: Specimen Trail (Study Specimens)

- Shows a study or studies specimens and the collection and quantity details

Download the report in:   

Specimen Trail (Study Specimens)

Selected Date Range Filter: [Date Range:ALL] [Organization:WCG - VELOS][Study:961]

Legend: Level 1: 1 Level 2: 2 Level 3: 3 Level 4: 4 Level 5: 5 Level 6: 6 Level 7: 7 Level 8: 8 Level 9: 9 Level 10: 10

Top Level: Level 1 Specimens: 1 Level 2 Specimens: 1 Level 3 Specimens: 0 Level 4 Specimens: 0 Level 5 Specimens: 0 Level 6 Specimens: 0 Level 7 Specimens: 0 Level 8 Specimens: 0 Level 9 Specimens: 0 Level 10 Specimens: 0

Specimen ID	Specimen Alternate ID	Parent Specimen ID	Child Specimen Count	Study Number	Specimen Type	Collection Date	Anatomic Site	Original Quantity	Quantity Units
152			1	961	Urine	11-OCT-21		0.00	Millilitre
152_91		152	0	961	Urine	11-OCT-21		0.00	Millilitre

- Specimen: Specimens by Patient

- Shows listing of specimens by Patient ID

Download the report in:   

Specimens by Patient

Selected Date Range Filter: [Date Range:ALL] [Organization:WCG - VELOS][Study:961]

By Specimen Type: Urine : 2 (100.00%) By Study: 961 : 2 (100.00%)

Total Matching Rows: 2

Study #	Collected On	Specimen ID	Is Child?	Parent ID	Specimen Type	Quantity	Stored In	Storage ID	Location
PATIENT ID: 0000-44445									
961	10/11/2021	152			Urine	0.00 Millilitre	DEMO7_Style2-B1	2134	DEMO7_Style2
961	10/11/2021	152_01	Yes	152	Urine	0.00 Millilitre	DEMO7_Style2-A1	2131	DEMO7_Style2

- **Specimen: Specimens by Study**
 - Shows listing of specimens by Study with details like Patient ID, Storage ID, and Quantity.

Download the report in:   

Specimens by Study									
Selected Date Range Filter: [Date Range: ALL] [Organization: WCG - VELOS][Study: 961]									
By Specimen Type					By Study				
Urine : 2 (100.00%)					961 : 2 (100.00%)				
Total Matching Rows: 2									
Patient ID	Collected On	Specimen ID	Is Child?	Parent ID	Specimen Type	Quantity	Stored In	Storage ID	Location
STUDY: 961									
0000-44445	10/11/2021	152			Urine	0.00 Millilitre	DEMO7_Style2-B1	2134	DEMOT_Style2
0000-44445	10/11/2021	152_01	Yes	152	Urine	0.00 Millilitre	DEMO7_Style2-A1	2131	DEMOT_Style2

2.7.2 eSample Ad-hoc Queries

Ad-Hoc Queries (AHQ) allow permissioned users to create custom reports from:

- Key Velos eResearch datasets (e.g. – Study Status, patient demographics, etc.)
- User-created forms (forms created in Velos eResearch). **Refer to the Forms Management section in the eResearch User Guide**, for more information about forms.
 - Defined form fields (Fields that are used in forms). **Refer to the Field Library section in the eResearch User Guide**, for more information about fields.
- **Refer to the Ad-hoc Queries (AHQ) section in the eResearch User Guide**, for more information on AHQs.

3 Appendix A: Technical Information

3.1 Revision History

Version	Section	Description of Changes
1	N/A, first version Appendix B – Storage Configurations	1. This initial version was exported from the eResearch user guide for 12.1. Refer to the eResearch user guide’s Revision History for any prior changes to this free-standing user guide. 2. New Section
2	Add Multiple Specimens Edit a Specimen eSample Biospecimen Reports eSample Ad-hoc Queries Minimum Workstation Requirements	New Section Added note about Attachments link to be used for results and images. New Section New Section Internet Explorer is no longer supported, and Microsoft Edge is now a supported browser.

3.2 Related Software

Software	Version
Velos eResearch	13.0

3.3 Minimum Workstation Requirements

Browser	Version	Screen Resolutions
Google Chrome	104	1280x1024 1360x768
Firefox	104	
Edge	104	

4 Appendix B – Storage Configurations

This appendix shows the 46 different configurations that specimens can be arranged in storage units. For more information, refer to [Storage Admin](#).

The configuration options include:

- **Storage Naming Style** (Refers to the order in which the dimensions (Rows and Columns) are listed in the storage name)
 - **Style 1** by Row then Column
 - **Style 2** by Column then Row
- **Dimension** (Appears by Naming Convention then by Positioning in the field)
 - **Dimension 1** by Columns
 - **Dimension 2** by Rows
- **Naming Convention** (Represents preferred sorting positions)
 - From A>ZZ or from ZZ<A
 - From 1 to n or from n to 1
- **Positioning**
 - Left to Right (L-R) or Right to Left (R-L)
 - Back to Front (B-F) or Front to Back (F-B)
- **#of Cells** – may be any amount for Dimension 1 or Dimension 2

Storage Grid Details : Child Storage Units					
Child Storage Type	Select an option ▼	Storage Naming Style ?	Style 1(Row, Column) ▼		
Dimension 1 (Columns)	#of Cells 3	Naming Convention	1 to n ▼	Positioning	Left to Right ▼
Dimension 2 (Rows)	#of Cells 2	Naming Convention	A>ZZ ▼	Positioning	Back to Front ▼

The first configuration on the next page will start with the following options, as selected above:

Storage Naming Style 1 (Row, Column); Dimension 1 with Naming Convention from 1 to n and Positioning from Left to Right for three cells; Dimension 2 with Naming Convention from A>ZZ and Positioning from Back to Front for two cells.

In the right-hand column will be the same selections except the Storage Naming Style will be Style 2 (Column, Row). This pattern will continue for each example with the change in Naming Convention and Positioning being highlighted in yellow. Additionally, the Naming Conventions will be set for Dimension 1 as 1 to n or n to 1 and Dimension 2 as A>ZZ or ZZ<A for scenarios 1 to 14 and then vice versa for the Naming Conventions for the two dimensions for the remaining scenarios.

Style 1 (Row, Column)				Style 2 (Column, Row)					
Dimension 1 (1 to n or n to 1) by Dimension 2 (A>ZZ or ZZ<A) Scenarios 1-14				Dimension 1 (1 to n or n to 1) by Dimension 2 (A>ZZ or ZZ<A) Scenarios 1-14					
Scenario 1				Scenario 1					
	# of cells	Naming Convention	Positioning		# of cells	Naming Convention	Positioning		
Dimension 1	3	1 to n	L-R	Dimension 1	3	1 to n	L-R		
Dimension 2	2	A>ZZ	B-F	Dimension 2	2	A>ZZ	B-F		
Expected Result				Expected Result					
			Back				Back		
			1	2	3				
Left	A	A1	A2	A3	Right	A	1A	2A	3A
	B	B1	B2	B3		B	1B	2B	3B
			Front				Front		
Scenario 2				Scenario 2					
	# of cells	Naming Convention	Positioning		# of cells	Naming Convention	Positioning		
Dimension 1	3	1 to n	R-L	Dimension 1	3	1 to n	R-L		
Dimension 2	2	A>ZZ	B-F	Dimension 2	2	A>ZZ	B-F		
Expected Result				Expected Result					
			Back				Back		
			1	2	3				
Left	A	A3	A2	A1	Right	A	3A	2A	1A
	B	B3	B2	B1		B	3B	2B	1B
			Front				Front		
Scenario 3				Scenario 3					
	# of cells	Naming Convention	Positioning		# of cells	Naming Convention	Positioning		
Dimension 1	3	1 to n	L-R	Dimension 1	3	1 to n	L-R		
Dimension 2	2	A>ZZ	F-B	Dimension 2	2	A>ZZ	F-B		
Expected Result				Expected Result					
			Back				Back		
			1	2	3				
Left	A	B1	B2	B3	Right	A	1B	2B	3B
	B	A1	A2	A3		B	1A	2A	3A
			Front				Front		
Scenario 4				Scenario 4					
	# of cells	Naming Convention	Positioning		# of cells	Naming Convention	Positioning		
Dimension 1	3	1 to n	R-L	Dimension 1	3	1 to n	R-L		
Dimension 2	2	A>ZZ	F-B	Dimension 2	2	A>ZZ	F-B		
Expected Result				Expected Result					
			Back				Back		
			1	2	3				
Left	A	B3	B3	B1	Right	A	3B	2B	1B
	B	A3	A2	A1		B	3A	2A	1A
			Front				Front		
Scenario 5				Scenario 5					
	# of cells	Naming Convention	Positioning		# of cells	Naming Convention	Positioning		
Dimension 1	3	n to 1	L-R	Dimension 1	3	n to 1	L-R		
Dimension 2	2	A>ZZ	B-F	Dimension 2	2	A>ZZ	B-F		
Expected Result				Expected Result					
			Back				Back		
			1	2	3				
Left	A	A3	A2	A1	Right	A	3A	2A	1A
	B	B3	B2	B1		B	3B	2B	1B
			Front				Front		

Scenario 6			
	# of cells	Naming Convention	Positioning
Dimension 1	3	1 to n	L-R
Dimension 2	2	ZZ<A	B-F
Expected Result			
		1	2 3
Left	A	ZZ1	ZZ2 ZZ3
	B	ZY1	ZY2 ZY3
		Back	Right
		Front	

Scenario 6			
	# of cells	Naming Convention	Positioning
Dimension 1	3	1 to n	L-R
Dimension 2	2	ZZ<A	B-F
Expected Result			
		1	2 3
Left	A	1ZZ	2ZZ 3ZZ
	B	1ZY	2ZY 3ZY
		Back	Right
		Front	

Scenario 7			
	# of cells	Naming Convention	Positioning
Dimension 1	3	n to 1	L-R
Dimension 2	2	ZZ<A	B-F
Expected Result			
		1	2 3
Left	A	ZZ3	ZZ2 ZZ1
	B	ZY3	ZY2 ZY1
		Back	Right
		Front	

Scenario 7			
	# of cells	Naming Convention	Positioning
Dimension 1	3	n to 1	L-R
Dimension 2	2	ZZ<A	B-F
Expected Result			
		1	2 3
Left	A	3ZZ	2ZZ 1ZZ
	B	3ZY	2ZY 1ZY
		Back	Right
		Front	

Scenario 8			
	# of cells	Naming Convention	Positioning
Dimension 1	3	n to 1	R-L
Dimension 2	2	A>ZZ	B-F
Expected Result			
		1	2 3
Left	A	A3	A2 A1
	B	B3	B2 B1
		Back	Right
		Front	

Scenario 8			
	# of cells	Naming Convention	Positioning
Dimension 1	3	n to 1	R-L
Dimension 2	2	A>ZZ	B-F
Expected Result			
		1	2 3
Left	A	3A	2A 1A
	B	3B	2B 1B
		Back	Right
		Front	

Scenario 9			
	# of cells	Naming Convention	Positioning
Dimension 1	3	1 to n	L-R
Dimension 2	2	ZZ<A	F-B
Expected Result			
		1	2 3
Left	A	ZY1	ZY2 ZY3
	B	ZZ1	ZZ2 ZZ3
		Back	Right
		Front	

Scenario 9			
	# of cells	Naming Convention	Positioning
Dimension 1	3	1 to n	L-R
Dimension 2	2	ZZ<A	F-B
Expected Result			
		1	2 3
Left	A	1ZY	2ZY 3ZY
	B	1ZZ	2ZZ 3ZZ
		Back	Right
		Front	

Scenario 10			
	# of cells	Naming Convention	Positioning
Dimension 1	3	1 to n	R-L
Dimension 2	2	ZZ<A	F-B
Expected Result			
		1	2 3
Left	A	ZY3	ZY2 ZY1
	B	ZZ3	ZZ2 ZZ1
		Back	Right
		Front	

Scenario 10			
	# of cells	Naming Convention	Positioning
Dimension 1	3	1 to n	R-L
Dimension 2	2	ZZ<A	F-B
Expected Result			
		1	2 3
Left	A	3ZY	2ZY 1ZY
	B	3ZZ	2ZZ 1ZZ
		Back	Right
		Front	

Scenario 11			
	# of cells	Naming Convention	Positioning
Dimension 1	3	n to 1	R-L
Dimension 2	2	A>ZZ	F-B
Expected Result			
		1	2 3
Left	A	B1	B2 B3
	B	A1	A2 A3
		Back	Right
		Front	

Scenario 11			
	# of cells	Naming Convention	Positioning
Dimension 1	3	n to 1	R-L
Dimension 2	2	A>ZZ	F-B
Expected Result			
		1	2 3
Left	A	1B	2B 3B
	B	1A	2A 3A
		Back	Right
		Front	

Scenario 12				
	# of cells	Naming Convention	Positioning	
Dimension 1	3	n to 1	L-R	
Dimension 2	2	ZZ<A	F-B	
Expected Result				
		Back		
		1	2 3	
Left	A	ZY3	ZY2 ZY1	Right
	B	ZZ3	ZZ2 ZZ1	
		Front		

Scenario 12				
	# of cells	Naming Convention	Positioning	
Dimension 1	3	n to 1	L-R	
Dimension 2	2	ZZ<A	F-B	
Expected Result				
		Back		
		1	2 3	
Left	A	3ZY	2ZY 1ZY	Right
	B	3ZZ	2ZZ 1ZZ	
		Front		

Scenario 13				
	# of cells	Naming Convention	Positioning	
Dimension 1	3	n to 1	R-L	
Dimension 2	2	ZZ<A	B-F	
Expected Result				
		Back		
		1	2 3	
Left	A	ZZ1	ZZ2 ZZ3	Right
	B	ZY1	ZY2 ZY3	
		Front		

Scenario 13				
	# of cells	Naming Convention	Positioning	
Dimension 1	3	n to 1	R-L	
Dimension 2	2	ZZ<A	B-F	
Expected Result				
		Back		
		1	2 3	
Left	A	1ZZ	2ZZ 3ZZ	Right
	B	1ZY	2ZY 3ZY	
		Front		

Scenario 14				
	# of cells	Naming Convention	Positioning	
Dimension 1	3	n to 1	R-L	
Dimension 2	2	ZZ<A	F-B	
Expected Result				
		Back		
		1	2 3	
Left	A	ZY1	ZY2 ZY3	Right
	B	ZZ1	ZZ2 ZZ3	
		Front		

Scenario 14				
	# of cells	Naming Convention	Positioning	
Dimension 1	3	n to 1	R-L	
Dimension 2	2	ZZ<A	F-B	
Expected Result				
		Back		
		1	2 3	
Left	A	1ZY	2ZY 3ZY	Right
	B	1ZZ	2ZZ 3ZZ	
		Front		

Dimension 1 (A>ZZ or ZZ<A) by Dimension 2 (1 to n or n to 1) Scenarios 15-23

Dimension 1 (A>ZZ or ZZ<A) by Dimension 2 (1 to n or n to 1) Scenarios 15-23

Scenario 15				
	# of cells	Naming Convention	Positioning	
Dimension 1	3	A>ZZ	L-R	
Dimension 2	2	1 to n	B-F	
Expected Result				
		Back		
		A	B C	
Left	1	1A	1B 1C	Right
	2	2A	2B 2C	
		Front		

Scenario 15				
	# of cells	Naming Convention	Positioning	
Dimension 1	3	A>ZZ	L-R	
Dimension 2	2	1 to n	B-F	
Expected Result				
		Back		
		A	B C	
Left	1	A1	B1 C1	Right
	2	A2	B2 C2	
		Front		

Scenario 16				
	# of cells	Naming Convention	Positioning	
Dimension 1	3	A>ZZ	R-L	
Dimension 2	2	1 to n	B-F	
Expected Result				
		Back		
		A	B C	
Left	1	1C	1B 1A	Right
	2	2C	2B 2A	
		Front		

Scenario 16				
	# of cells	Naming Convention	Positioning	
Dimension 1	3	A>ZZ	R-L	
Dimension 2	2	1 to n	B-F	
Expected Result				
		Back		
		A	B C	
Left	1	C1	B1 A1	Right
	2	C2	B2 A2	
		Front		

Scenario 17				
	# of cells	Naming Convention	Positioning	
Dimension 1	3	A>ZZ	L-R	
Dimension 2	2	1 to n	F-B	
Expected Result				
		A	B C	
Left	1	2A	2B 2C	Right
	2	1A	1B 1C	
		Front		

Scenario 17				
	# of cells	Naming Convention	Positioning	
Dimension 1	3	A>ZZ	L-R	
Dimension 2	2	1 to n	F-B	
Expected Result				
		A	B C	
Left	1	A2	B2 C2	Right
	2	A1	B1 C1	
		Front		

Scenario 18			
	# of cells	Naming Convention	Positioning
Dimension 1	3	A>ZZ	R-L
Dimension 2	2	1 to n	F-B
Expected Result			
		A	B C
Left	1	2C	2B 2A
	2	1C	1B 1A
			Front

Scenario 18			
	# of cells	Naming Convention	Positioning
Dimension 1	3	A>ZZ	R-L
Dimension 2	2	1 to n	F-B
Expected Result			
		A	B C
Left	1	C2	B2 A2
	2	C1	B1 A1
			Front

Scenario 19			
	# of cells	Naming Convention	Positioning
Dimension 1	3	ZZ<A	L-R
Dimension 2	2	1 to n	B-F
Expected Result			
		A	B C
Left	1	1ZZ	1ZY 1ZX
	2	2ZZ	2ZY 2ZX
			Front

Scenario 19			
	# of cells	Naming Convention	Positioning
Dimension 1	3	ZZ<A	L-R
Dimension 2	2	1 to n	B-F
Expected Result			
		A	B C
Left	1	ZZ1	ZY1 ZX1
	2	ZZ2	ZY2 ZX2
			Front

Scenario 20			
	# of cells	Naming Convention	Positioning
Dimension 1	3	ZZ<A	R-L
Dimension 2	2	1 to n	B-F
Expected Result			
		A	B C
Left	1	1ZX	1ZY 1ZZ
	2	2ZX	2ZY 2ZZ
			Front

Scenario 20			
	# of cells	Naming Convention	Positioning
Dimension 1	3	ZZ<A	R-L
Dimension 2	2	1 to n	B-F
Expected Result			
		A	B C
Left	1	ZX1	ZY1 ZZ1
	2	ZX2	ZY2 ZZ2
			Front

Scenario 21			
	# of cells	Naming Convention	Positioning
Dimension 1	3	ZZ<A	L-R
Dimension 2	2	1 to n	F-B
Expected Result			
		A	B C
Left	1	2ZZ	2ZY 2ZX
	2	1ZZ	1ZY 1ZX
			Front

Scenario 21			
	# of cells	Naming Convention	Positioning
Dimension 1	3	ZZ<A	L-R
Dimension 2	2	1 to n	F-B
Expected Result			
		A	B C
Left	1	ZZ2	ZY2 ZX2
	2	ZZ1	ZY1 ZX1
			Front

Scenario 22			
	# of cells	Naming Convention	Positioning
Dimension 1	3	ZZ<A	R-L
Dimension 2	2	1 to n	F-B
Expected Result			
		A	B C
Left	1	2ZX	2ZY 2ZZ
	2	1ZX	1ZY 1ZZ
			Front

Scenario 22			
	# of cells	Naming Convention	Positioning
Dimension 1	3	ZZ<A	R-L
Dimension 2	2	1 to n	F-B
Expected Result			
		A	B C
Left	1	ZX2	ZY2 ZZ2
	2	ZX1	ZY1 ZZ1
			Front

Scenario 23			
	# of cells	Naming Convention	Positioning
Dimension 1	3	ZZ<A	L-R
Dimension 2	2	n to 1	F-B
Expected Result			
		A	B C
Left	1	1ZZ	1ZY 1ZX
	2	2ZZ	2ZY 2ZX
			Front

Scenario 23			
	# of cells	Naming Convention	Positioning
Dimension 1	3	ZZ<A	L-R
Dimension 2	2	n to 1	F-B
Expected Result			
		A	B C
Left	1	ZZ1	ZY1 ZX1
	2	ZZ2	ZY2 ZX2
			Front