**TMT location:**

1. Log in to TMT (<http://vtest11.wustl.edu:8080/catissuetmt/Home.do>).
2. Select Test cases tab.
3. Expand caTissue product from the tree view.
4. Expand Mater List-v2.0 version
5. Expand Biospecimen Component
6. Expand Specimen test area
7. Select Test case ID 9599 with short title PROCESS\_Create\_aliquot\_from\_existing\_Specimen.

**Purpose:** Test to ensure that user is able to create aliquots of existing specimen. Also to test that these aliquots inherit some parent properties and still act as an individual specimen which can be further processed.

**Pre-requisites:**

Import latest dump located at

Oracle: https://ncisvn.nci.nih.gov/svn/catissue\_persistent/caTissue Database Dump/v2.0/Oracle

MySQL: https://ncisvn.nci.nih.gov/svn/catissue\_persistent/caTissue Database Dump/v2.0/MySQL and deploy application with Label Generator Setting ON for Specimen “edu.wustl.catissuecore.namegenerator.DefaultSpecimenLabelGenerator“

**Procedure:**

1. Login as Super Administrator with the login credentials as [admin@admin.com](mailto:admin@admin.com) and password as Test123.
2. Navigate to Collection Protocol Based view select “**Z6041**” protocol from the Collection Protocol.
3. Select “Hall, Barbara” from the “Participant (Protocol ID)” section.
4. Select the “**Pre-CRT**” event point from the **Specimen Details** section.(Refer the expected output)
5. Select the Parent specimen with label **45678901** under the “**Pre-CRT**” event point.(Refer the expected output)
6. From the **Create Child Specimen(s)** section click on the **Aliquot** radio button.

. (Refer the expected output)

1. Enter 4 in Count Text box and 0.2 in the Quantity per Aliquot text box.
2. Click on **Submit**. (Refer the expected output)
3. From the **Create Aliquot >> Aliquot Count** section edit the count to 5 in place of 4.
4. Click on **Resubmit**. (Refer the expected output)
5. Check “Do you want to dispose Parent Specimen?” check box.
6. Select second storage container for aliquot 4 and 5 from the Auto container drop down list.
7. Check “Do you want to store all aliquot(s) in same container?” check box. (Refer Expected Output)
8. Click on **Add To My List** Button. (Refer the expected output)
9. From the LHS select the child specimen with the label as “**45678901\_7**”. (Refer the expected output)
10. Click on the **Events** tab (Refer the expected output)
11. Select “Embedded” from Select “Specimen Event To Add” dropdown. (Refer to expected output)
12. Click on **Submit**. (Refer the expected output)

**Expected Output:**

4) The RHS should get refreshed displaying the “Edit Specimen Collection Group”page.

5) The “**Specimen Details**” page should be displayed with the Specimen Details default tab selected. This page should have the following sections

* **Specimen Details** – with following details :

|  |  |  |  |
| --- | --- | --- | --- |
| **Attributes** | **Values** | **Attributes** | **Values** |
| **\***Specimen Collection Group | Z6041\_1611\_2015 | **\***Lineage | New |
| **\***Label | 45678901 | Barcode | 982364 |
| **\***Class | Tissue | **\***Type | Fixed Tissue |
| **\***Tissue Site | Rectum, NOS | **\***Tissue Side | Right |
| **\***Pathological Status | Malignant | Created On | Current Date |
| **\***Initial Quantity | 10.0 | Concentration |  |
| Is Available? | Checked (True) | **\***Available Quantity | 9.8 |
| Collection Status | Collected | Activity Status | Active |
| Storage Position | Laboratory for Translational Pathology\_CT\_Tissue\_Rack\_82 | Comments |  |

**\*** Denotes mandatory field.

* **External Identifier(s)** - collapsible section with **Name** and **Value** text box.
* **Biohazard(s)** - collapsible section with **Type** and **Name** dropdown.
* **Create Child Specimen(s)** – four radio buttons of None, Aliquot, Derivative and Create Aliquot/Derived Specimen as per CP and Count and Quantity per Aliquot textboxes.

6) Once the Aliquot radio button is clicked the Count and Quantity per Aliquot text boxes should get enabled.

8) **Aliquot** page should be displayed with “Tissue Specimen successfully updated” Message. This page should have the following sections

* **Create Aliquot**
* **\***Parent Specimen Label with Label radio button selected by default and Barcode disabled text box.
* **\***Aliquot Count
* Quantity per Aliquot
* **Aliquot** : with following details auto populated

|  |  |  |  |
| --- | --- | --- | --- |
| **Attributes** | **Values** | **Attributes** | **Values** |
| Class | Tissue | Type | Fixed Tissue |
| Tissue Site | Rectum, NOS | Tissue Side | Right |
| Pathological Status | Malignant | Concentration |  |
| Initial Quantity | 9.8 | Current Available Quantity | 9.0 |
| Created On | Current Date |  |  |

* **Quantity and Storage Location**

|  |  |  |  |
| --- | --- | --- | --- |
| **Quantity** | **Storage Location** | **Position 1** | **Position 2** |
| 0.2 | Laboratory for Translational Pathology\_CT\_Tissue\_Rack\_82 | 5 | 6 |
| 0.2 | Laboratory for Translational Pathology\_CT\_Tissue\_Rack\_82 | 5 | 7 |
| 0.2 | Laboratory for Translational Pathology\_CT\_Tissue\_Rack\_82 | 5 | 8 |
| 0.2 | Laboratory for Translational Pathology\_CT\_Tissue\_Rack\_82 | 5 | 9 |

10) The RHS should get refreshed with the change in **Aliquot section** for

|  |  |  |  |
| --- | --- | --- | --- |
| Initial Quantity | 9.8 | Current Available Quantity | 8.8 |

and the Quantity and Storage Location having an additional row with the identical details of **Quantity , Storage Location , Position 1 and Position 2**

13) Create aliquot page will be refreshed and all the aliquot will be stored in the same container.

14) The RHS displays Aliquot page with “5 Records are added in the List.” message on the top. The **Aliquot Creation Summary** section should now display the following

|  |  |  |  |
| --- | --- | --- | --- |
| **Attributes** | **Values** | **Attributes** | **Values** |
| Class | Tissue | Type | Fixed Tissue |
| Tissue Site | Rectum, NOS | Tissue Side | Right |
| Pathological Status | Malignant | Concentration |  |
| Available Quantity | 8.8 | Created On | Current Date |

Also following details pertaining to the aliquots should be displayed

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **#** | **Label** | **Barcode** | **Initial Quantity** | **Storage location** | **Postition1** | **Position 2** |
| 1 | 45678901\_3 | 982364\_5 | 0.2 | Laboratory for Translational Pathology\_CT\_Tissue\_Rack\_82 | 5 | 6 |
| 2 | 45678901\_4 | 982364\_6 | 0.2 | Laboratory for Translational Pathology\_CT\_Tissue\_Rack\_82 | 5 | 7 |
| 3 | 45678901\_5 | 982364\_7 | 0.2 | Laboratory for Translational Pathology\_CT\_Tissue\_Rack\_82 | 5 | 8 |
| 4 | 45678901\_6 | 982364\_8 | 0.2 | Laboratory for Translational Pathology\_CT\_Tissue\_Rack\_82 | 5 | 9 |
| 5 | 45678901\_7 | 982364\_9 | 0.2 | Laboratory for Translational Pathology\_CT\_Tissue\_Rack\_82 | 5 | 10 |

LHS should display the created aliquots under the parent specimen.

**Note:** Refer <https://cabig-kc.nci.nih.gov/Biospecimen/KC/index.php/Main_Page/Auto_Storage> for more details on AUTO storage allocation.

The aliquot storage location will be parent storage location + 1 or next free location in the same container. If no position is free in parent container then a new container will be selected.

The parent specimen will be disposed off and a disposal event will get associated to it with activity status as “Closed” and the specimen will no longer be available for further processing. The storage location will be freed up.

**Note:** If parent specimen is fully consumed as in this case and “Dispose Parent specimen” option is not selected then the parent specimen activity status will be active. The specimen still will be not available for further processing.

15) The “**Specimen Details**” page should be displayed with the Specimen Details default tab selected. This page should have the following sections

* Specimen Details – with following details :

|  |  |  |  |
| --- | --- | --- | --- |
| **Attributes** | **Values** | **Attributes** | **Values** |
| **\***Parent Label | 45678901 | **\***Lineage | New |
| **\***Label | 45678901\_7 | Barcode | 982364\_7 |
| **\***Class | Tissue | **\***Type | Fixed Tissue |
| **\***Tissue Site | Rectum, NOS | **\***Tissue Side | Right |
| **\***Pathological Status | Malignant | Created On | Current Date |
| **\***Initial Quantity | 0.2 | Concentration |  |
| Is Available? | Checked (True) | **\***Available Quantity | 0.2 |
| Collection Status | Collected | Activity Status | Active |
| Storage Position | Laboratory for Translational Pathology\_CT\_Tissue\_Rack\_82 | Comments |  |

**\*** Denotes mandatory field.

Here Class, Type, Tissue Site, Tissue Side and Storage Locations are disabled fields.

* External Identifier(s) - collapsible section with **Name** and **Value** text box.
* Biohazard(s) - collapsible section with **Type** and **Name** dropdown.
* Create Child Specimen(s) – four radio buttons of None, Aliquot, Derivative and Create Aliquot/Derived Specimen as per CP and Count and Quantity per Aliquot textboxes.

16) The Events tab should be displayed with Existing events for the specimen with label '45678901\_7' table. This should be auto populated with the collection and Received Event and Select Specimen Event to add dropdown.

17)  Event Details **"*Embedded Event*"** should be displayed with the following details

**\***User

**\***Date

**\***Time

Embedding Medium: Optimal Cutting Temperature Media

Comments

18)  Existing events for the specimen with label '45678901\_7' should be auto populated with the new “***Embedded Event***” details.

**Verification Logic:**

1. Search for the specimen via Simple Search as Simple Label equals and verify that the specimen details are correctly auto populated.
2. Following changes should be reflected in caTissue audit tables:
3. In CATISSUE\_AUDIT\_EVENT table new record should be entered with IP address equal to the IP address of the machine from which the action was performed and Event\_Timepstamp equal to the date on which the action was performed. Event Type should contain INSERT for catissue\_<specimen type>\_specimen.
4. In CATISSUE\_AUDIT\_EVENT\_LOG table Object\_Name should contain catissue\_<specimen type>\_specimen, CATISSUE\_EXTERNAL\_IDENTIFIER (if added), CATISSUE\_SPECIMEN\_EVENT\_PARAM, CATISSUE\_SPECIMEN\_POSITION, CATISSUE\_CONSENT\_TIER\_STATUS and CATISSUE\_SPECIMEN\_CHAR. Object\_ID is the unique ID of the object inserted. Parent\_ID will be null for the main object (Specimen). Containment or reference type objects getting added will have a parent\_id equal to the ID of the main Object being inserted. This table refers to CATISSUE\_AUDIT\_EVENT\_LOG table which relates to the CATISSUE\_AUDIT\_EVENT table.
5. In CATISSUE\_AUDIT\_EVENT\_DETAILS table Element name contains the list of attributes that are in CATISSUE\_SPECIMEN.ID of all the reference and containment association classes should also be audited.
6. Refer the data model and audit metadata.xml to find out the classes with containment and reference association with the main class. All the classes and attributes should be audited in respective audit tables.