**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 9596 with short title COLLECT\_AnticipatedSpecimen\_can\_be\_collected\_success

**Purpose:** Test to ensure that specimens can be collected successfully from Specimen Collection Group page and are stored appropriately as per the defined constraint in the storage container.

**Pre-requisites:**

1. 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 settings ON for specimen with value “edu.wustl.catissuecore.namegenerator.DefaultSpecimenLabelGenerator”.

1. Label printing settings should be ON.

**Procedure:**

1. Login as 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)**.(Refer the expected output)
4. From the LHS >> Specimen Details >> select **T1.0: Pre-CRT** event point**.** (Refer the expected output)
5. On the Edit Specimen Collection Group page enter the following mandatory details

Specimen Collection Group Name: SCG\_ASA\_1

Collection Site: Laboratory for Translational Pathology Research

Collection Status: Complete

1. Click on **Submit** (Refer the expected output)
2. On the **Specimen Details** page check the “Storage location” that have been auto populated for each individual specimen. (Refer the expected output)
3. Check the Coll? and Print Check boxes.
4. Click on **Submit** button. (Refer the expected output)
5. Repeat the steps from 4 to 9 for **T1.0: Surgery.** (Refer the expected output)
6. Click on **Register New** button and enter a new participant as “Carter, Susan” and click on **Register** **Participant** Button. (Refer the expected output)
7. For “Carter, Susan” repeat the steps from 4 to 9 for **T1.0: Pre-CRT** event point. (Refer the expected output)

**Expected Output:**

3) **Edit Participant** page is displayed on the RHS and LHS **Specimen Details** section should auto populate the 2 event points as

* **T1.0 :Pre-CRT**
* **T1.0 :Surgery**

4) The RHS should display following tabs with “**Specimen Details**” as the default tab selected

* **Specimen Details**
* **Events**
* **View Surgical Pathology Reports**
* **View Annotations**
* **Consents**

6) “Specimen Collection Group successfully updated.” message should be displayed at the top of the page and Specimen Details page should be displayed with Specimen Details, Derivative Sections and the Aliquot Section. The specimen details will be in accordance with the Collection Protocol as below:

|  |  |  |  |
| --- | --- | --- | --- |
| **Attributes** | **Parent Specimen1** | **Parent Specimen2** | **Parent Specimen3** |
| Class | Tissue | Tissue | Tissue |
| Type | Fixed Tissue | Fixed Tissue | Fixed Tissue |
| Pathological Status | Malignant | Malignant | Malignant |
| Tissue Site | Rectum, NOS | Rectum, NOS | Rectum, NOS |
| Tissue Side | Right | Right | Right |
| Quantity | 10 | 10 | 10 |

Aliquot details of Specimen1

|  |  |  |
| --- | --- | --- |
| **Attributes** | **Aliquot1** | **Aliquot2** |
| Class | Tissue | Tissue |
| Type | Fixed Tissue | Fixed Tissue |
| Quantity | 0.1 | 0.1 |

7) Selecting AUTO storage location will search for storage container that best matches the specimen and CP restrictions.

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

9) The RHS of the page should get refreshed with “Printed Successfully” message displayed at the top of the page and **Edit Specimen Collection Group Page** displayed with the auto generated labels.

For the **T1.0: Pre- CRT the** parent specimen, the derivatives and the aliquots should be stored as follows:

|  |  |  |  |
| --- | --- | --- | --- |
| **Specimen** | **Storage location** | **Storage Position** | |
| Parent Specimen | LTP\_CP\_Tissue\_FixedTissue\_620 | 1 | 1 |
| Derivative 1 | LTP\_CP\_OtherClass\_OtherType\_618 | 1 | 1 |
| Derivative 1 | LTP\_CP\_OtherClass\_OtherType\_618 | 1 | 2 |
| Aliquot 1 | LTP\_CP\_Tissue\_FixedTissue\_620 | 1 | 2 |
| Aliquot 2 | LTP\_CP\_Tissue\_FixedTissue\_620 | 1 | 3 |
| Aliquot 3 | LTP\_CP\_Tissue\_FixedTissue\_620 | 1 | 4 |
| Aliquot 4 | LTP\_CP\_Tissue\_FixedTissue\_620 | 1 | 5 |

10) For **T1.0: Surgery the** parent specimen, the derivatives and the aliquots should be stored as follows:

|  |  |  |  |
| --- | --- | --- | --- |
| **Specimen** | **Storage location** | **Storage Position** | |
| Parent Specimen | LTP\_CP\_OnlyClass\_AnyType\_619 | 1 | 1 |
| Derivative 1 | LTP\_CP\_OtherClass\_OtherType\_618 | 1 | 3 |
| Derivative 1 | LTP\_CP\_OtherClass\_OtherType\_618 | 1 | 4 |
| Aliquot 1 | LTP\_CP\_OnlyClass\_AnyType\_619 | 1 | 2 |
| Aliquot 2 | LTP\_CP\_OnlyClass\_AnyType\_619 | 1 | 3 |
| Aliquot 3 | LTP\_CP\_OnlyClass\_AnyType\_619 | 1 | 4 |
| Aliquot 4 | LTP\_CP\_OnlyClass\_AnyType\_619 | 1 | 5 |

11) Participant registered successfully message should be displayed.

12) For the **T1.0: Pre- CRT the** parent specimen, the derivatives and the aliquots should be stored as follows:

|  |  |  |  |
| --- | --- | --- | --- |
| **Specimen** | **Storage location** | **Storage Position** | |
| Parent Specimen | LTP\_CP\_OnlyClass\_AnyType\_619 | 1 | 1 |
| Derivative 1 | LTP\_CP\_OtherClass\_OtherType\_618 | 1 | 3 |
| Derivative 1 | LTP\_CP\_OtherClass\_OtherType\_618 | 1 | 4 |
| Aliquot 1 | LTP\_CP\_OnlyClass\_AnyType\_619 | 1 | 2 |
| Aliquot 2 | LTP\_CP\_OnlyClass\_AnyType\_619 | 1 | 3 |
| Aliquot 3 | LTP\_CP\_OnlyClass\_AnyType\_619 | 1 | 4 |
| Aliquot 4 | LTP\_CP\_OnlyClass\_AnyType\_619 | 1 | 5 |

**Verification Logic:**

1. Verify that the containers that have been auto populated are as per the priority from <https://wikip2m1.wustl.edu/foswiki/bin/view/Catissue/AliquotsAutoStorageAllocation> link.

Verify that the containers that have been populated for each specimen allocation is as per the table found on this link

1. Simple Query on the containers and check that the containers that have been auto populated are the one that follows the container restrictions and its hierarchy.
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.
5. 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.
6. 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.
7. 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.