**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 9600 with short title PROCESS\_Create\_derivative\_from\_existing\_specimen.

**Purpose:** Test to ensure user is able to create derivatives from existing specimen.

**Pre-requisites:**

Dump should have been imported from /files/caTissue/dump.

**Procedure:**

1. Login as Administrator with the login credentials as [admin@admin.com](mailto:admin@admin.com) and password as Test!@#.
2. Navigate to **Biospecimen Data >> Specimen >> Derive** link.(Refer the expected output)
3. Enter the following respective details

|  |  |
| --- | --- |
| **Attributes** | **Value** |
| \*Parent Specimen Details - Label | 45679029 |
| Parent Specimen Details - Barcode |  |
| **\***Class | Molecular |
| **\***Type | RNA, cytoplasmic |
| **\***Label | 45679029\_Der1 |
| Concentration | 0.00001 |
| **\***Initial Quantity | 3.08 |
| Created On | Current Date |
| **\***Storage Position | Manual : LTP\_AnyCP\_AnyClass\_AnyType\_616 |
| Comments | This is the created derivative |

1. Click on **Create** button. (Refer the expected output)

**Expected Output:**

2) **Specimen Derive** page should be displayed with following sections

* **Parent Specimen Details**

|  |
| --- |
| **Attributes** |
| \*Parent Specimen Details - Label |
| Parent Specimen Details - Barcode |
| **\***Class |
| **\***Type |
| **\***Label |
| Concentration |
| **\***Initial Quantity |
| Created On |
| **\***Storage Position |
| Comments |

* **External Identifier(s)** - collapsible section with **Name** and **Value** text box.
* **Aliquot(s)**
* **Do you want to create aliquot(s)?**
* **Do you want to dispose parent specimen?**
* Aliquot Count
* Quantity per Aliquot

5) “Molecular Specimen successfully created.” message should be displayed with **Specimen Details** page with the following attributes

|  |
| --- |
| **Attributes** |
| **\***Parent Label |
| **\***Lineage |
| Label |
| Barcode |
| **\***Class |
| **\***Type |
| **\***Tissue Site |
| **\***Tissue Side |
| **\***Pathological Status |
| Created On |
| **\***Initial Quantity |
| Concentration |
| Is Available |
| Available Quantity |
| Collection Status |
| Available Quantity |
| **\***Storage Position |
| Comments |

**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.