**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:**

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 **Biospecimen Data >> Specimen >> Multiple** link.(Refer the expected output)
3. Select “**Derived Specimen**” radio button.
4. Click on Add More Button thrice.
5. Enter the following details :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Attributes** | **Derivative1** | **Derivative2** | **Derivative3** | **Derivative4** |
| \*Parent Name | TSpecimen2 | TSpecimen2 | TSpecimen2 | TSpecimen2 |
| **\***Class | Molecular | Molecular | Cell | Cell |
| **\***Type | DNA | protein | Slide | Fixed Cell Block |
| Created On | Current Date | Current Date | Current Date | Current Date |
| Quantity | 1 | 1.0 | 1.0 | 1.0 |
| Concentration | 0.00001 | 0.00001 |  |  |
| Storage | Manual | Manual | Auto | Auto |
| Comment | Molecular Derivative created for TSpecimen2 | Molecular Derivative created for TSpecimen2 | Cell Derivative created for TSpecimen2 | Cell Derivative created for TSpecimen2 |
| External Identifier | Default | Default | Default | Default |
| Biohazards | Default | Default | Default | Default |
| Derivative | Default | Default | Default | Default |

1. Click on “**Submit**”button. (Refer expected output).
2. Enter Manual storage location as “**LTP1\_NoCP\_OtherClass\_OtherType\_338 (3, 1)**” and click on “**Apply First Location to All**”. (Refer Expected Output)
3. Select “**Auto**” option for third and fourth derivative. (Refer Expected Output)
4. Click on “**Submit**” button. (Refer expected output)

**Expected Output:**

2) **Multiple** **Specimen** page should be displayed with following attributes:

|  |
| --- |
| **Attributes** |
| \*Parent Name |
| **\***Class |
| **\***Type |
| Created On |
| Quantity |
| Concentration |
| Storage |
| Comment |
| External Identifier |
| Biohazards |
| Derivative |

6) “SUCCESS” message should be displayed and **Specimen Details** page will open.

7) Storage location “**LTP1\_NoCP\_OtherClass\_OtherType\_338**” will be allocated to all the specimens.

8) Auto storage location will search for containers and will display “LTP1\_OnlyCP\_OtherClass\_OtherType\_343” container due to storage type 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) Derivatives will be created successfully and “Specimens successfully created” message will be displayed.

**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.