**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 9598 with short title ADD\_Multiple\_specimen\_Outside\_CP

**Purpose:** Test to ensure that multiple specimens can be added outside the CP from Add multiple specimens’ page.

**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 ON for specimens “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 Specimen page.
3. Click on **Add More** button.
4. Enter the following details in the Specimen 1 and Specimen 2 sections :

|  |  |  |
| --- | --- | --- |
| Select All Specimen | Specimen 1 | Specimen 2 |
| **Specimen Collection Group** | **ACOSOG Z6041: Phase 2 Trial o\_261\_221** | **ACOSOG Z6041: Phase 2 Trial o\_261\_221** |
| **\*Class** | Molecular | Fluid |
| **\*Type** | DNA | Not Specified |
| **Tissue Site** | Esophagus, NOS | Esophagus, NOS |
| **Tissue Side** | Left | Left |
| **Pathological Status** | Non-Malignant | Non-Malignant |
| **Created On Date** | Current Date | Current Date |
| **Quantity** | 2.75 | 15 |
| **Concentration** | 0.001 | 0 (disabled) |
| **Storage** | Manual | Manual |
| **Comment** | Molecular Specimen Outside cp | Specimen Outside cp |
| **Collected Event** | Default | Default |
| **Received Event** | Default | Default |
| **External Identifier** | Default | Default |
| **Biohazards** | Default | Default |
| **Derivatives** | Default | Default |

1. Again click on **Add More Button** and enter the following details in the Specimen 3 :

|  |  |
| --- | --- |
| Select All Specimen | Specimen 3 |
| **Specimen Collection Group** | **ACOSOG Z6041: Phase 2 Trial o\_261\_221** |
| **\*Class** | Tissue |
| **\*Type** | Frozen Tissue |
| **Tissue Site** | Esophagus, NOS |
| **Tissue Side** | Left |
| **Pathological Status** | Non-Malignant |
| **Created On Date** | Current Date |
| **Quantity** | 10 |
| **Concentration** | 0 (disabled) |
| **Storage** | Auto |
| **Comment** | Specimen Outside cp |
| **Collected Event** | Default |
| **Received Event** | Default |
| **External Identifier** | Default |
| **Biohazards** | Default |
| **Derivatives** | Yes |

Create Derived Specimen details:

|  |  |
| --- | --- |
|  | Derivative for Specimen3 |
| **Class** | Molecular |
| **Type** | cDNA |
| **Created on** | Current Date |
| **Concentration** | 0.0005 |
| **Quantity** | 0.8 |
| **Storage** | Auto |
| **Comment** | Derivative created from Multiple Specimen Page outside CP |
| **External Identifier** | Default |

1. Click on **Add More** button to add Speicmen4.
2. Check the check box for Specimen 3 and the individual check boxes which are present just before the respective attribute names.
3. Click on **Copy**. (Refer the expected output)
4. Check the Specimen 4 check box and click on **Paste** Button. (Refer the expected output)
5. Click on **Submit** Button. (Refer the expected Output).
6. Select Storage container “Harris BU 1 (1, 1)” of “Laboratory for Translational Pathology” site for Specimen1 using map button.
7. Click on “Apply First To All”. (Refer Expected Output)
8. Select Auto allocation for Specimen3 and Specimen4. (Refer Expected Output)
9. Click on **Submit**. (Refer the expected Output).

**Expected Output:**

2) A page should be displayed with the following

Do you want to create New Specimen or Derived Specimen? With New Specimen (selected default) and Derived Specimen radio buttons.

**Copy, Paste, Add More, Delete and Submit Buttons**.

3) Addition Specimen 2 should be displayed.

5) Additional Specimen 3 should be displayed.

7) Select All Specimen and the respective Specimen 1 and Specimen 2 boxes.

8) Below that 5 columns should be present one with the Specimen Attribute Name and the other two for the values to be entered by the user:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Select All Specimen | Specimen 1 | Specimen 2 | Specimen 3 | Specimen 4 |
| **Specimen Collection Group** | **ACOSOG Z6041: Phase 2 Trial o\_261\_221** | **ACOSOG Z6041: Phase 2 Trial o\_261\_221** | **ACOSOG Z6041: Phase 2 Trial o\_261\_221** | **ACOSOG Z6041: Phase 2 Trial o\_261\_221** |
| **\*Class** | Fluid | Fluid | Fluid | Fluid |
| **\*Type** | Not Specified | Not Specified | Not Specified | Not Specified |
| **Tissue Site** | Not Specified | Not Specified | Not Specified | Not Specified |
| **Tissue Side** | Not Specified | Not Specified | Not Specified | Not Specified |
| **Pathological Status** | Not Specified | Not Specified | Not Specified | Not Specified |
| **Created On Date** | Current Date | Current Date | Current Date | Current Date |
| **Quantity** | 0 | 0 | 0 | 0 |
| **Concentration** | 0 (disabled) | 0 (disabled) | 0 (disabled) | 0 (disabled) |
| **Storage** | Virtual | Virtual | Virtual | Virtual |
| **Comment** |  |  |  |  |
| **Collected Event** |  |  |  |  |
| **Received Event** |  |  |  |  |
| **External Identifier** |  |  |  |  |
| **Biohazards** |  |  |  |  |
| **Derivatives** |  |  |  |  |

Note:

1. **Collected Event, Received Event ,External Identifier** and **Biohazards** should be a collapsible section
2. **Derivative** should open a **Create Derived Specimen** pop up.

9) The following details should be populated once the specimen 4 is updated.

|  |  |
| --- | --- |
| Select All Specimen | Specimen 4 |
| **Specimen Collection Group** | **ACOSOG Z6041: Phase 2 Trial o\_261\_221** |
| **\*Class** | **ACOSOG Z6041: Phase 2 Trial o\_261\_221** |
| **\*Type** | Tissue |
| **Tissue Site** | Frozen Tissue |
| **Tissue Side** | Esophagus, NOS |
| **Pathological Status** | Left |
| **Created On Date** | Non-Malignant |
| **Quantity** | Current Date |
| **Concentration** | 10 |
| **Storage** | 0 (disabled) |
| **Comment** | Auto |
| **Collected Event** | Specimen Outside cp |
| **Received Event** | Default |
| **External Identifier** | Default |
| **Biohazards** | Default |
| **Derivatives** | Default |

10) **Specimen Details** page should be displayed.

12) Same Storage container will be allocated to all the specimens.

13) Auto storage container would list “LTP1\_Z6401\_Tissue\_AnyType\_344” container of site “LTP1” for Specimen3 and Specimen4. First empty position will be allocated to them in the container. Container “LTP1\_OnlyCP\_OtherClass\_OtherType\_343” of site “LTP1” will be listed for derivative of Specimen3.

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

14) Specimens should be created successfully and “Specimens successfully created” message should be displayed.

**Verification Logic:**

1. Search for the specimen via Simple Search. The recently added specimens would be listed in the search result.
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.