**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 Ordering and Distribution Component
6. Expand Request Review & Distribution test area
7. Select Test case ID 9594 with short title Distribution\_Success\_Specimens\_Derivatives\_Aliquots

**Purpose**: **To ensure a site administrator can successfully distribute order of specimens, specimen derivatives and specimen aliquots successfully.**

**Prerequisites:**

Import dump located at /files/caTissue/dump and deploy application

**Procedure:**

1. Login as a site admin user ([admin\_ltp@gmail.com](mailto:admin_ltp@gmail.com)) Test123.
2. Navigate to Search-🡪Saved Queries.
3. Select Query title ***Specimens\_ collected\_LateStageBreast*** ***\_Cancer*** to execute.
4. Click on Execute on Configure Query parameters.
5. On View results page, check the “Check-All on this page” check-box. Refer the expected output.
6. Click on Add to My list. Refer the expected Output.
7. Navigate to Search-🡪My list view.
8. Select the Check All button in my list view.
9. Select the radio-button for Order Biospecimens and Click on Submit.
10. In the Biospecimen Order page, enter Order Title: ***Path\_Lab\_Request***, Select Distribution Protocol from the drop-down list as ***ACOSOG\_Z1031.***
11. Click on Next.
12. On the order details page, Specimen list should be populated. Verify the specimen list. Refer the expected output.
13. Select the check-box next to Specimen labels. Select the specimens with specimen labels as 175\_1, 175\_2, 175\_3,175\_4,174\_1,174\_2 and 174\_3 from the list by checking the check-box next to each specimen.
14. Click on Add to Order list. Refer the expected Output.
15. Select radio-button next to Derivative Specimen. Refer the expected output.
16. Select Specimen Class as Molecular, Specimen Type as DNA. Enter required quantity as 3.Refer the expected output.
17. Click on Apply to All.
18. Select specimens with following specimen labels, and 177\_1,177\_2 and 177\_3 by checking the check-box next to each specimen.
19. Click on Add to Order list. Refer the expected Output.
20. Select specimen with specimen label as 178\_1 and 178\_2 from the list by checking the check-box next to each specimen. Enter required quantity as 1000.
21. Click on Add to Order list. Refer the expected Output.
22. Click on Order.
23. Login as a site administrator [admin\_ltp@gmail.com(Test123)](mailto:admin_ltp@gmail.com(Test123))
24. Navigate to Biospecimen Data -🡪Order View.
25. Select order name ***“Path\_Lab\_Request”.*** Verify the order details such as Order Name, Distribution Protocol, Requestor Name, and Requestor Date and specimen details. Refer the expected Output.
26. For the ordered specimens, in the requested specimen details section, verify the specimen list shown in the ***Request For*** drop-down. Refer the expected Output.
27. For the ordered specimen derivatives, in the requested specimen details section, verify the specimen list shown in the ***Request For*** drop-down. Refer the expected Output.
28. Select the parent specimen with label as 177\_1 from the drop-down. Click on Create Derivative button
29. Enter details on Create Derivative page and Click on Submit.
30. Select Specimen class as “Molecular” and Specimen Type as “DNA”. Enter specimen label as 177\_1D. Enter specimen initial quantity as 1. Click on Create.
31. Repeat the above step, select following specimens 177\_2 and 177\_3 from the drop-down. Enter specimen labels as 177\_2D and 177\_3D.
32. Select the parent specimen with label as 178\_1 from the drop-down. Click on Create Aliquot button. Enter aliquot count as 1 and quantity as 1000.
33. Enter details on Create Aliquot page and Submit.
34. Repeat the above steps for parent specimen with label 178\_2.Refer the expected output.
35. Select the order status as Distributed.
36. Select a distribution site as “***Kidney for translational research core***” from the drop-down.
37. Click on Submit. Refer the expected Output.
38. Expand the show details section on Distribution report page. Click on Define View.
39. Select object name as Collection Protocol Registration, select column name as Protocol participant identifier. Click on Add to view.
40. Click on Submit. Refer the expected output.
41. Check the Select All check box; Click on export button. Refer the expected output.
42. Click on save button on the csv file.
43. Verify the available quantity of the distributed specimens. Refer the expected output.

**Expected Output:**

5 The specimen list on View results page should display specimens.

6 A message should be displayed as “Records are added in the list”.

12 The order of specimens in the list displayed in Order details page should be same as the order of specimens in my list view.

14 The specimens added should be added in the Order list on R.H.S

15 On selecting radio button next to Derivative Specimen, a section with drop-downs for Specimen Class, Specimen Type and Required quantity would appear.

17 The required quantity for all the specimens in the list should be updated to 3.

19 The order list on R.H.S of order page should display the derivative specimens added.

23 A message should be displayed as “Order successfully created for ***Ellis\_Lab\_Request***”.

26 The order details page should display following details.

|  |  |  |
| --- | --- | --- |
|  | **Order Name** | ***Ellis\_Lab\_Request*** |
|  | **Distribution Protocol** | ACOSOG Z1031: Randomized Phase III Trial Comparing 16 to 18 weeks of Neoadjuvant Exemestane, Letrozole, or Anastrozole in Post menopausal Women with clinical Stage II and III Estragen Receptor Postitive Breast Cancer-DP |
|  | **Requestor Name** | Admin,admin |
|  | **Requestor Date** |  |
| **Ordered Specimen Details** | **175\_1** | Frozen Cell Pellet, 1.0E7 cell count |
| **Specimen Type ,Available Quantity** | **175\_2** | Frozen Cell Pellet, 1.0E7 cell count |
|  | **175\_3** | Frozen Cell Pellet, 1.0E7 cell count |
|  | **175\_4** | Frozen Cell Pellet, 1.0E7 cell count |
|  | **174\_1** | Fluid, Plasma |
|  | **174\_2** | Fluid, Plasma |
|  | **174\_3** | Fluid, Plasma |
|  | **177\_1** | DNA,3 |
|  | **177\_2** | DNA,3 |
|  | **177\_3** | DNA,3 |
| **Requested Specimen Details** | **177\_1** | NA |
| **Specimen Type, Available Quantity** | **177\_2** | NA |
|  | **177\_3** | NA |
|  | **174\_1** | Fluid, Plasma |
|  | **174\_2** | Fluid, Plasma |
|  | **174\_3** | Fluid, Plasma |
|  | **175\_1** | Frozen Cell Pellet, 1.0E7 cell count |
|  | **175\_2** | Frozen Cell Pellet, 1.0E7cell count |
|  | **175\_3** | Frozen Cell Pellet, 1.0E7cell count |
|  | **175\_4** | Frozen Cell Pellet, 1.0E7cell count |

27 The request for drop-down should list following specimens.

|  |  |
| --- | --- |
| **Ordered Specimen** | **Requested Specimen** |
| **177\_1** | **177\_1** |
| **177\_2** | **177\_2** |
| **177\_3** | **177\_3** |
| **174\_1** | **174\_1** |
| **174\_2** | **174\_2** |
| **174\_3** | **174\_3** |
| **175\_1** | **175\_1** |
| **175\_2** | **175\_2** |
| **175\_3** | **175\_3** |
| **175\_4** | **175\_4** |

31 A message should be displayed as “Derivative created successfully”. The request for drop-down should list following specimens

|  |  |
| --- | --- |
| **Ordered Specimen** | **Requested Specimen** |
| 177\_1 | 177\_1D |
| 177\_2 | 177\_2D |
| 177\_3 | 177\_3D |
| 178\_1 | 178\_1\_1 |
| 178\_2 | 178\_2\_1 |

34 A message should be displayed as “Aliquots created successfully”.

37 A message should be displayed as “Order successfully updated for ***Path\_Lab\_Request***”. Distribution report and distribution item list should be displayed. Distribution report should display following details.

1. Distribution Identifier
2. Distribution Protocol
3. User
4. Date
5. Time
6. To Site
7. Comments

Distributed items should display specimen details such as Specimen label, specimen type, tissue side, tissue site and pathological status.

38 Distributed items section should display all the columns configured using Define View. The columns shown should be

Specimen label, specimen type, tissue side, tissue site, pathological status and protocol participant identifier.

41 DistributionReport.csv should open with following details as:

1. Distribution Protocol
2. User
3. Date
4. Time
5. To Site
6. Comments
7. Specimen label
8. Specimen type
9. Tissue side
10. Tissue site
11. Pathlogical Status

42 Clicking on save button of file download window, distribution report should be saved at selected location.

43 The available quantity of the distributed specimens should be Available qty-Distributed Qty. In case the available quantity is zero, specimen should be marked as not available.

**Verification Logic:**

1. Navigate to Order View. The created order should be displayed in Order list.
2. 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\_order.
3. In CATISSUE\_DATA\_AUDIT\_EVENT\_LOG table Object Name should contain catissue\_order. Object\_ID is the unique ID of the object inserted. Parent\_id will be null for the main object. 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.
4. In CATISSUE\_AUDIT\_EVENT\_DETAILS table Element name contains the list of attributes that are in CATISSUE\_ORDER, CATISSUE\_EXISTING\_SP\_ORDER, CATISSUE\_NEW\_SP\_AR\_ORDER\_ITEM and CATISSUE\_DERIVED\_SP\_ORDER\_ITEM.ID of all the reference and containment association classes should also be audited.
5. 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\_distribution.
6. In CATISSUE\_DATA\_AUDIT\_EVENT\_LOG table Object Name should contain catissue\_order. Object\_ID is the unique ID of the object inserted. Parent\_id will be null for the main object. 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.
7. In CATISSUE\_AUDIT\_EVENT\_DETAILS table Element name contains the list of attributes that are in CATISSUE\_DISTRIBUTION and.ID of all the reference and containment association classes should also be audited.
8. 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