

itBioPath

HOW-TO



Conducting a Specimen Transformation

The screenshot displays the itBioPath software interface. On the left, the search panel includes fields for CCF#, HCI#, Protocol, Tissue Type, Cancer Status, Distributed Project, Patient Alias, MRN (set to ACIS-007), and Aliquot Alias. Below these is a 'Tree View - Specimens by Type' showing a hierarchy of specimen types: Blood - Plasma (6), Blood - Serum (3), Blood - White Blood Cells/Buffy Coat (6), Blood Product (1), Genetic - DNA (1), and Solid Tissue (4). The 'Blood Product (1)' category is expanded, showing specimen #14-02857 collected on 04/08/2014 using the HCI Test Protocol. At the bottom left, a 'List View - Specimen Results' section shows the user 'Nicholas Courdy' and the date 'Tue, Apr 15, 2014'.

The main window on the right is titled 'Specimen #14-02857' and contains a 'Specimen Detail' form. The form includes fields for Tissue (Collection Site), Tissue (Histologic), Specimen Type, Blood Product Type, and Tissue Cancer Status. The 'Specimen Detail' section contains the following information:

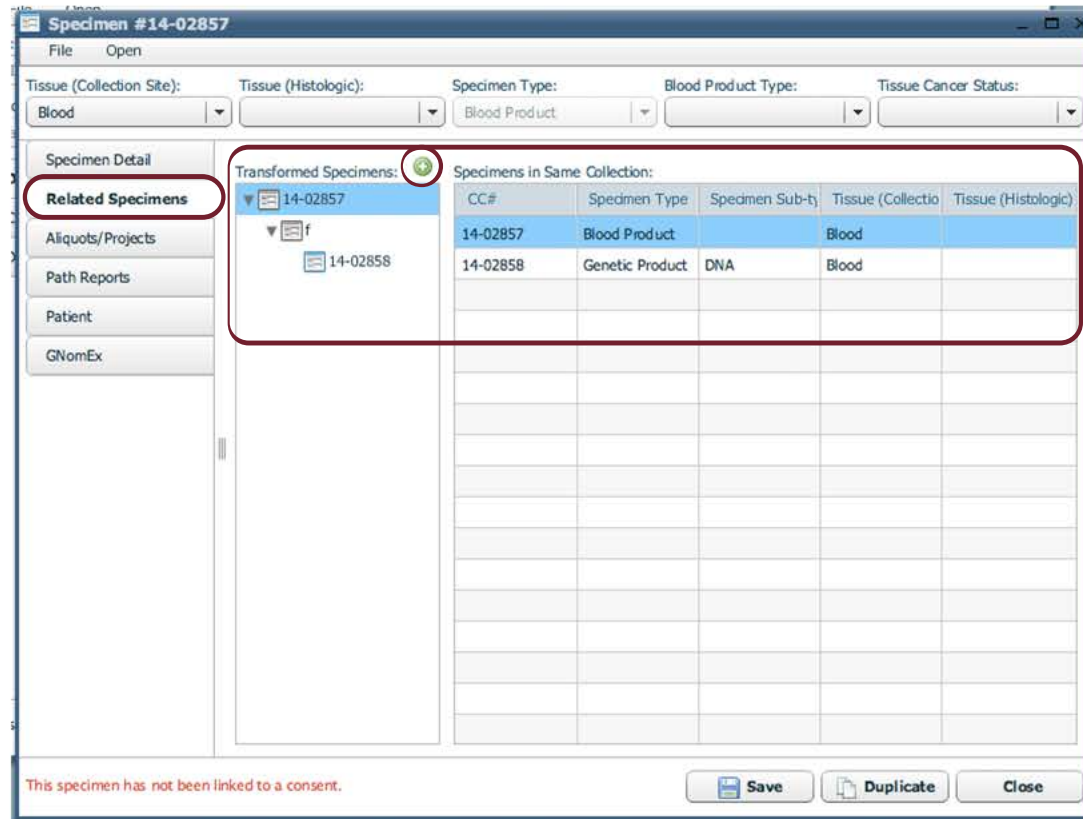
- Collection #: 90534
- Collected from Patient: 04/08/2014 (time unknown)
- Collection Protocol: HCI Test Protocol
- Institution Collected From: HCI
- External: N
- Lab Collected By: [blank]
- Collected By: [blank]

Below this, there are fields for Received (04/08/2014), Status (Available), Status Date (04/08/2014), Specimen Comments, Collect Prep Type (Fresh), Collect Prep Method, Prepared by, Quality Notes, Procurement Time, Expiration, and Laterality. At the bottom of the form, there are sections for 'Specimen Aliases' and 'Specimen Classifications'. The 'Specimen Aliases' table is as follows:

Site	Alias Type	Alias
HCI	Batch ID	1234

A red message at the bottom of the specimen window states: 'This specimen has not been linked to a consent.' Buttons for 'Save', 'Duplicate', and 'Close' are located at the bottom right of the window.

Find a particular specimen for transformation by using the Search functions in itBioPath. In this example, the specimen was found by searching for a patient's MRN. The specimens associated to the patient became visible in the Tree View. Double click the desired specimen to open a specimen window.



The 'Related Specimens' tab of the specimen window contains the 'Transformed Specimens' box. This will display any prior transformations. Click on the icon to begin a transformation. A new window will open.

Transform Specimen

Step 1 | Step 2 | Step 3 | Summary

Additional Details

Shadow ID: MJNLFK

Tissue (Collection Site): Blood

Tissue (Histologic):

Tissue Cancer Status:

Has Consent: ✘

Organism:

Received: 04/08/2014

Thaw Date: 0 : 00 Time Unk.

Transformed: 04/15/2014

Collect Prep Type:

Collect Prep Method:

Prepared by: Nicholas Courdy

Status: Available

Status Date: 04/08/2014

Expiration:

Project: Show Inactive

Specimen

CC#:

Assign manually?

Specimen: Genetic Product: RIN:

Specimen Aliases: Show Inactive ✔

Site	Alias Type	Alias
HCI	Batch ID	1234

Specimen Classifications: ✔

Specimen Comments:

Quality Notes:

This specimen has not been linked to a consent.

The first step of the transformation includes general information about the transformation. Specify what Type the newly transformed specimen will be. When all the necessary information is entered, click 'Next'.

Transform Specimen

Step 1: | Step 2: | Step 3: | Summary

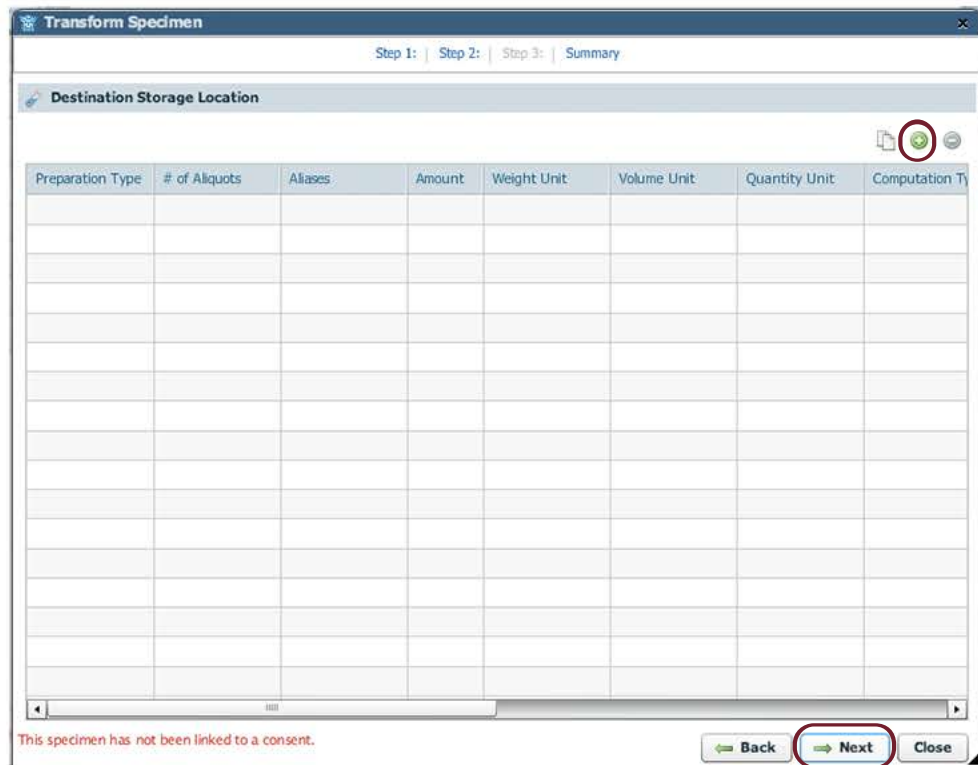
Source Storage Location

Transform	Seq..	Location	Available	Remaining	Transform	Sections	Containers	Deplet..
<input checked="" type="checkbox"/>	e	Test Freezer Test Box 1 F4	5.0000	0.0000	5.0000			Y
<input type="checkbox"/>	g	Test Freezer Test Box 1 F6	5.0000	5.0000	0.0000			N
<input type="checkbox"/>	h	Test Freezer Test Box 1 F7	5.0000	5.0000	0.0000			N

This specimen has not been linked to a consent.

Back Next Close

Step 2 allocates the source location for the transformation. Available amounts from different aliquots of the specimens will be shown. Click the correct boxes in the 'Transform' column to activate the aliquot for transformation. When all appropriate sources are checked, click 'Next'.



Step 3 will add the destination storage location. Click the  icon. A new window will appear.

Add Storage

Storage Prep Type: **Frozen** # Aliquots: **3**

Amount: **5** Unit: Weight Volume **mL** Quantity

Computation Type: Per Aliquot Total

Container Type: **Cryovial**

Cell Type: Cell Count: Concentration:

Aliquot Comments:

Aliquot Times:

Type	Time
Storage Time (...)	04/10/2014 (time unknow)

Aliquot Aliases:

a
b
c

Location 1: **Test Freezer | Rack 1 | Box01**

	1	2	3	4	5
A	A	A	A	A	
B		A			
C					
D					
E					

Selected XY: **A5, B1, B3**

Location 2:

How do you want cells to be selected?

Next Available
 Sequential
 Manual

Update Selections
Clear All Selections

Update **Update & Add Another** **Close**

The 'Add Storage' window adds information about aliquot storage amounts. Choose which freezer and box the transformed specimens will go in by clicking the Location drop down. itBioPath will automatically add the new aliquots in the next available cells.

Add Storage

Storage Prep Type: # Aliquots:

Amount: Unit: Weight Volume Quantity

Computation Type: Per Aliquot Total

Container Type:

Cell Type: Cell Count: Concentration:

Aliquot Comments:

Aliquot Times:

Type	Time	Aliases
Storage Time (...)	04/10/2014 (time unknow)	a
		b
		c

Aliquot Aliases:

Location 1:

	1	2	3	4	5
A	A	A	A	A	
B		A			
C					
D					
E					

Selected XY: B3, B4, B5

Location 2:

How do you want cells to be selected?

Next Available

Sequential

Manual

Multiple aliquots of the same specimen can easily be stored next to one another in the box. By clicking the 'sequential' option and clicking 'Update Selections' the aliquots will be moved to the first sequential set of cells available. When all the information entered is correct, click 'Update'.

Transform Specimen

Step 1: | Step 2: | Step 3: | Summary

SUMMARY

Additional Details

Shadow ID: MJNLFK

Tissue (Collection Site): Blood

Tissue (Histologic):

Tissue Cancer Status:

Has Consent:

Organism:

Received: 04/08/2014

Specimen

CC#: TBD

Specimen Type: Genetic Product Genetic Product Type: RIN:

Specimen Aliases:

Site	Alias Type	Alias
HCI	Batch ID	1234

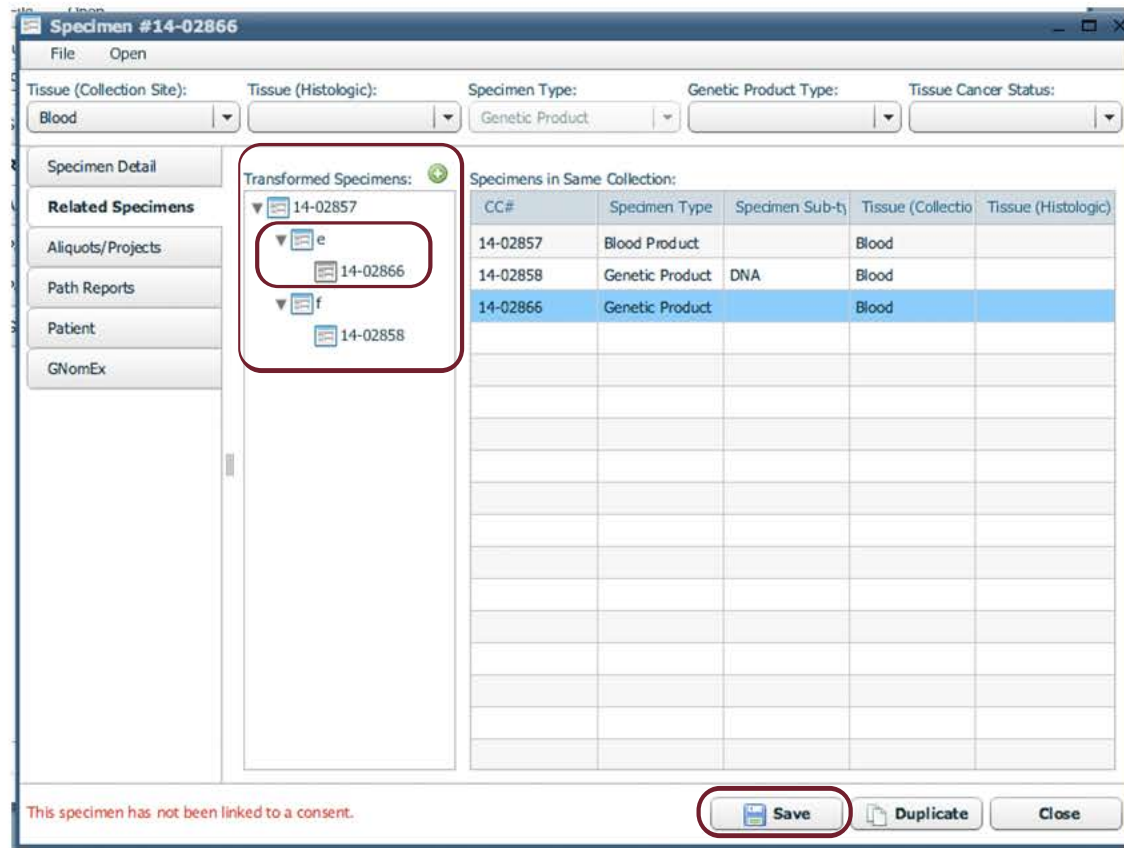
Storages

Preparation Type	# of Aliquots	Aliases	Amount	Weight Unit	Volume Unit	Concentration	Concentration
Frozen	3		10		mL		

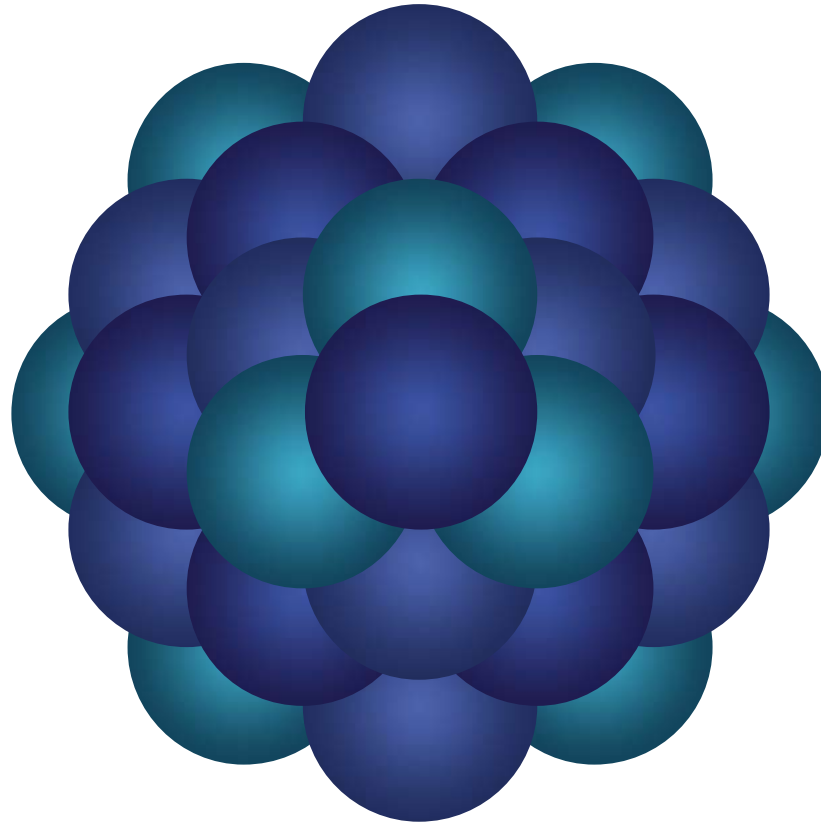
This specimen has not been linked to a consent.

Back Save Close

The Summary step will provide information about everything just entered for the transformation. Double check the information. If everything is correct, click 'Save'. The transformation is now complete.



The newly transformed specimen will open in its own window. The CC# that itBioPath assigns new specimens will be visible along the top of the window. The new specimen will now appear in the 'Transformed specimens' box. The specimen this specimen was transformed from will also be visible.



Questions?

Email 'Informatics - itBioPath Support' email group