

Module: biospecimens

Module Contents

block-prod

1. [CENTER_NO \(PK*\)](#)
2. [BLOCK_PROD_CID \(PK*\)](#)
3. [BLOCK_SPEC_CID](#)
4. [IS_DISPATCHABLE](#)
5. [IS_DEPLETED](#)
6. [BLOCK_PROD_TYPE](#)
7. [COUNT_ORIG](#)
8. [COUNT_REM](#)
9. [COUNT_REM_DISP](#)
10. [LOCATION](#)
11. [THICKNESS](#)
12. [DIGITAL_IMAGE](#)

1	CENTER_NO (PK*)	number (2,0)	Required: true
Center Identification Number. *CENTER_NO + BLOCK_PROD_CID are the primary key for the table.			

Allowable Values	
11	Cancer Care Ontario
12	USC Consortium
13	University of Melbourne
14	Cancer Research Center of Hawaii
15	Mayo Clinic
16	Fred Hutchinson, Seattle
17	Northern California (NCCC)

2	BLOCK_PROD_CID (PK*)	string (17)	Required: true
Unique local identifier used at a center to uniquely identify a block. *CENTER_NO + BLOCK_PROD_CID are the primary key for the table.			

3	BLOCK_SPEC_CID	string (17)	Required: true
Unique local identifier used at a center to uniquely identify a block tissue specimen.			

4	IS_DISPATCHABLE	number (1,0)	Required: true
Indicates whether the center is willing to dispatch the material to external investigators.			

Allowable Values

1	Yes
2	No

Error Description

If IS_DEPLETED = 1, IS_DISPATCHABLE must be 2

5	IS_DEPLETED	number (1,0)	Required: true
Indicates whether the material has been depleted through testing, processing, and dispatching.			

Allowable Values

1	Yes
2	No

6	BLOCK_PROD_TYPE	number (1,0)	Required: true
Type of block product			

Allowable Values	
1	Single H and E slide
2	Set of H and E slides with the same basic properties
3	Single uncoated (i.e. uncharged) slide
4	Set of uncoated (i.e. uncharged) slides with the same basic properties
5	Single coated (i.e. charged) slide
6	Set of coated (i.e. charged) slides with the same basic properties
7	Single section tube
8	Set of section tubes

7	COUNT_ORIG	number (4,0)	Required: true
Original number of slides or section tubes in the group corresponding to this record.			

Error Description
COUNT_ORIG must be greater or equal to COUNT_REM

8	COUNT_REM	number (4,0)	Required: true
Current number of slides or section tubes in the group corresponding to this record.			

Error Description
COUNT_REM must be less than or equal to COUNT_ORIG

9	COUNT_REM_DISP	number (4,0)	Required: true
Current number of slides or section tubes in the group corresponding to this record remaining at the time of transmission that is available for dispatch (excludes material held in reserve).			

Error Description
COUNT_REM_DISP must be less than or equal to COUNT_REM

10	LOCATION	number (1,0)	Required: true
Storage site for a specimen.			

Allowable Values	
1	Center
4	Multiple Sites

9 Unknown/lost

Error Description

If BLOCK_PROD_TYPE in (1,3,5,7), LOCATION must not equal 4

11

THICKNESS

number (6,2)

Required: false

Thickness of section or sections in microns.

12

DIGITAL_IMAGE

number (1,0)

Required: false

Flag indicating a digital image of the H & E slide is available

Allowable Values

1 Yes

Error Description

If BLOCK_PROD_TYPE not in (1,2), DIGITAL_IMAGE must be null

Module: biospecimens

Module Contents

block-spec

1. [CENTER_NO \(*PK\)](#)
2. [PERSON_ID](#)
3. [TUMOR_NO](#)
4. [BLOCK_SPEC_CID \(*PK\)](#)
5. [FRESH_SPEC_CID](#)
6. [BLOCK_CUSTODY](#)
7. [BLOCK_SOURCE](#)
8. [COLLECTION_CID](#)
9. [DATE_RECEIVED](#)
10. [DATE_TAKEN](#)
11. [IS_DEPLETED](#)
12. [TISSUE_TYPE](#)
13. [POLYP_NO](#)
14. [PATH_REPORT_RECEIVED](#)

1	CENTER_NO (*PK)	number (2,0)	Required: true
Center Identification Number. *CENTER_NO + BLOCK_SPEC_CID are the primary key for the table.			

Allowable Values	
11	Cancer Care Ontario
12	USC Consortium
13	University of Melbourne
14	Cancer Research Center of Hawaii
15	Mayo Clinic
16	Fred Hutchinson, Seattle
17	Northern California (NCCC)

2	PERSON_ID	string (12)	Required: true
Number that uniquely identifies an individual.			

3	TUMOR_NO	number (2,0)	Required: false
Sequential number, starting with "1", assigned to each tumor for a given individual when entered into the local system.			

Allowable Values	
1 to 99 or -9, -15	Range
1, 2, 3, ...	Number of tumor on cancer table.
-9	NA/Out of scope: Tissue is not cancer or contiguous adenoma
-15	Information Unknown
Error Description	
If TISSUE_TYPE is 1 or 4 TUMOR_NO must not be null	

4	BLOCK_SPEC_CID (*PK)	string (15)	Required: true
Unique local identifier used at a center to uniquely identify a block tissue specimen. *CENTER_NO + BLOCK_SPEC_CID are the primary key for the table.			

5	FRESH_SPEC_CID	string (9)	Required:false
Unique local identifier used at a center to uniquely identify a fresh tissue specimen.			

6	BLOCK_CUSTODY	number (2,0)	Required:true
Indicates whether or not the center is currently in custody of tissue specimen.			

Allowable Values

1 Yes

2 No

9 Not Known

7	BLOCK_SOURCE	string (16)	Required:true
The tissue source or origin in as much detail as is known. For tumor tissue, ICD-O-3 site code should be used.			

8	COLLECTION_CID	string (30)	Required:true
Identifier used internally by centers to denote a unique surgical event			

9	DATE_RECEIVED	string (8)	Required:true
Date specimen was received into the laboratory of a CRC-CFR center.			

Date Value Check

The date must follow to the following format:

Format YYYYMMDD. Must consist of valid date.

Components of date should be right justified and zero filled.

MM = 01 - 12, 88, 99

DD = 01 - 31, 88, 99

YYYY = **Minimum year** - system date year, 8888, 9999

Use 88, 8888 for not currently known, in progress to obtain information.

Use 99, 9999 for not known.

If century is known, but year is unknown then give an estimate of year or code YYYY = 9999.

If MM = 99 then DD must = 99.

If century is known, but year is unknown then give an estimate of year or code YYYY = 9999.

If YYYY = 9999 then MM and DD must = 99.

The following special parameters are used:

1980 Minimum year

Error Description

must be a valid date of format with minimum year of 1980

DATE_RECEIVED must be greater or equal to DATE_TAKEN

10	DATE_TAKEN	string (8)	Required:true
Date specimen was taken from patient.			

Date Value Check

The date must follow to the following format:

Format YYYYMMDD. Must consist of valid date.

Components of date should be right justified and zero filled.

MM = 01 - 12, 88, 99

DD = 01 - 31, 88, 99

YYYY = **Minimum year** - system date year, 8888, 9999
 Use 88, 8888 for not currently known, in progress to obtain information.
 Use 99, 9999 for not known.
 If century is known, but year is unknown then give an estimate of year or code YYYY = 9999.
 If MM = 99 then DD must = 99.
 If century is known, but year is unknown then give an estimate of year or code YYYY = 9999.
 If YYYY = 9999 then MM and DD must = 99.

The following special parameters are used:

1970	Minimum year
-------------	--------------

Error Description
must be a valid date of format with minimum year of 1970
DATE_TAKEN must be less than or equal to DATE_RECEIVED

11	IS_DEPLETED	number (1,0)	Required: true
Indicates whether the material has been depleted through testing, processing, and dispatching.			

Allowable Values	
1	Yes
2	No

12	TISSUE_TYPE	number (1,0)	Required: true
Type of tissue specimen received.			

Allowable Values	
1	Tumor
2	Prophylactic material
3	Normal tissue
4	Tumor + normal tissue
5	Polyp + normal tissue
6	Polyp
9	Not Known

13	POLYP_NO	number (2,0)	Required: false
Sequential number over range of 1 to 3 to distinguish a polyp removed on a particular date. The tuple PERSON_ID, DATE_COLLECTED, and POLYP_NO uniquely identify a physical polyp globally within the CFR database.			

Allowable Values	
-9	NA/Out of scope. Tissue is not a polyp
-1	Polyp has IHC/MSI result but center is currently unable to locate polyp pathology information. Center review to obtain this information is currently underway

Error Description
If TISSUE_TYPE is 5 or 6 POLYP_NO must not be null

14

PATH_REPORT_RECEIVED

number (1,0)

Required:false

Indicates whether a pathology report has been received for subject/specimen.

Allowable Values

1 Yes

2 No

9 Not Known

Module: biospecimens

Module Contents

blood-prod

1. [CENTER_NO \(*PK\)](#)
2. [BLOOD_PROD_CID \(*PK\)](#)
3. [BLOOD_PROD_TYPE](#)
4. [BLOOD_SPEC_CID](#)
5. [IS_DISPATCHABLE](#)
6. [IS_DEPLETED](#)
7. [COUNT_ORIG](#)
8. [COUNT_REM](#)
9. [COUNT_REM_DISP](#)
10. [LOCATION](#)
11. [DATE_TIME_PROCESSED](#)
12. [AMT_ORIG](#)
13. [AMT_REM](#)
14. [AMT_REM_DISP](#)
15. [VC_TUBE_TYPE](#)
16. [FREEZE_COUNT](#)

1	CENTER_NO (*PK)	number (2,0)	Required: true
Center Identification Number. *CENTER_NO + BLOOD_PROD_CID are the primary key for the table.			

Allowable Values	
11	Cancer Care Ontario
12	USC Consortium
13	University of Melbourne
14	Cancer Research Center of Hawaii
15	Mayo Clinic
16	Fred Hutchinson, Seattle
17	Northern California (NCCC)

2	BLOOD_PROD_CID (*PK)	string (16)	Required: true
Identifier used internally by centers for a product from a blood draw. This identifier will correspond to a single aliquot if the center individually tracks such materials. Alternatively, the identifier will correspond to a group of related aliquots (e.g. all plasma vials from the same draw) in the case where the center does not track each material independently. *CENTER_NO + BLOOD_PROD_CID are the primary key for the table.			

3	BLOOD_PROD_TYPE	number (2,0)	Required: true
Type of blood product			

Allowable Values	
1	Single aliquot of whole blood
2	Set of aliquots of whole blood with the same basic properties
3	Single aliquot of whole blood in DMSO
4	Set of aliquots of whole blood in DMSO with the same basic properties
5	Single aliquot of white blood cells. Refers specifically to lymphocytes isolated using a Ficoll-Histopaque gradient centrifugation, resuspended in freeze medium and cryopreserved
6	Set of white blood cells. Refers specifically to lymphocytes isolated using a Ficoll-Histopaque gradient centrifugation, resuspended in freeze medium and cryopreserved
7	Single aliquot of buffy coat

8	Set of aliquots of buffy coat with the same basic properties
9	Single aliquot of plasma
10	Set of aliquots of plasma with the same basic properties
11	Total spotted blood volume (i.e. on Guthrie cards)
12	Single lymphocyte pellet
13	Set of lymphocyte pellets with the same properties
14	Single white blood cell pellet
15	Set of white blood cell pellets with the same properties
16	Single granulocyte pellet
17	Set of granulocyte pellets with the same basic properties

4	BLOOD_SPEC_CID	string (15)	Required: true
Unique local identifier used at a center to uniquely identify a blood tissue specimen.			

5	IS_DISPATCHABLE	number (1,0)	Required: true
Indicates whether the center is willing to dispatch the material to external investigators.			

Allowable Values	
1	Yes
2	No

Error Description
If IS_DEPLETED = 1, IS_DISPATCHABLE must be 2

6	IS_DEPLETED	number (1,0)	Required: true
Indicates whether the center is willing to dispatch the material to external investigators.			

Allowable Values	
1	Yes
2	No

7	COUNT_ORIG	number (4,0)	Required: false
Original number of aliquots in the group corresponding to this record..			

Error Description
If BLOOD_PROD_TYPE is not 11, COUNT_ORIG must not be null
If BLOOD_PROD_TYPE is in (1,3,5,7,9,12,13,16), COUNT_ORIG must be 1

8	COUNT_REM	number (4,0)	Required: false
Current number of aliquots in the group corresponding to this record remaining at the time of transmission (includes material held in reserve).			

Error Description

BLOOD_PROD_TYPE is not 11, must not be null

must be less than or equal to COUNT_ORIG

COUNT_REM_DISP

number (4,0)

Required: false

9

Current number of aliquots in the group corresponding to this record remaining at the time of transmission that are available for dispatch (excludes material held in reserve).

Error Description

If BLOOD_PROD_TYPE is not 11, then COUNT_REM_DISP must not be null

COUNT_REM_DISP must be less than or equal to COUNT_REM

LOCATION

number (1,0)

Required: false

10

Storage site for a specimen.

Allowable Values

1 Center

2 CORIELL

3 SAIC

4 Multiple Sites

9 Unknown/lost

Error Description

If BLOOD_PROD_TYPE is in (1,3,5,7,12,14,16), then LOCATION does not equal 4

DATE_TIME_PROCESSED

number (12,0)

Required: false

11

Records the date and time sample was processed

AMT_ORIG

number (6,2)

Required: false

12

Original amount of material in milliliters.

Allowable Values

0 to 9999.99 or -9 Range

-9 Unknown quantity

Error Description

If BLOOD_PROD_TYPE = 11, then AMT_ORIG must not be null

AMT_REM

number (6,2)

Required: false

13

Amount of material remaining at time of reporting in milliliters (includes material held in reserve).

Allowable Values

0 to 9999.99 or -9	Range
-9	Unknown quantity

Error Description
If BLOOD_PROD_TYPE = 11, then AMT_REM must not be null
AMT_REM must be less than or equal to AMT_ORIG

14	AMT_REM_DISP	number (6,2)	Required: false
Amount of material remaining at time of reporting in milliliters that is available for dispatch (excludes material held in reserve).			

Allowable Values	
0 to 9999.99 or -9	Range
-9	Unknown quantity

Error Description
If BLOOD_PROD_TYPE = 11, then AMT_REM_DISP must not be null
AMT_REM_DISP must be less than or equal to AMT_ORIG

15	VC_TUBE_TYPE	number (1,0)	Required: false
Vacuum tube type used.			

Allowable Values	
1	EDTA
2	ACD
3	Heparin
4	SST
5	Plain tube (no additives)
9	Unknown

Error Description
If BLOOD_PROD_TYPE does not equal 11, then VC_TUBE_TYPE must not be null

16	FREEZE_COUNT	number (1,0)	Required: false
Number of times sample tube has been frozen" – the default value is "1".			

Allowable Values	
1 to 9 or -9	Range
-9	Unknown

Error Description
If BLOOD_PROD_TYPE is not equal 11, then FREEZE_COUNT must not be null

Module: biospecimens

Module Contents

blood-spec

1. [CENTER_NO \(*PK\)](#)
2. [PERSON_ID](#)
3. [BLOOD_SPEC_CID \(*PK\)](#)
4. [DATE_RECEIVED](#)
5. [DATE_TAKEN](#)

1	CENTER_NO (*PK)	number (2,0)	Required: true
Center Identification Number. *CENTER_NO + BLOOD_SPEC_CID are the primary key for the table.			

Allowable Values	
11	Cancer Care Ontario
12	USC Consortium
13	University of Melbourne
14	Cancer Research Center of Hawaii
15	Mayo Clinic
16	Fred Hutchinson, Seattle
17	Northern California (NCCC)

2	PERSON_ID	string (12)	Required: true
Number that uniquely identifies an individual.			

3	BLOOD_SPEC_CID (*PK)	string (15)	Required: true
Unique local identifier used at a center to uniquely identify a blood tissue specimen. *CENTER_NO + BLOOD_SPEC_CID are the primary key for the table.			

4	DATE_RECEIVED	string (8)	Required: true
Date specimen was received into the laboratory of a CRC-CFR center.			

Date Value Check	
The date must follow to the following format: Format YYYYMMDD. Must consist of valid date. Components of date should be right justified and zero filled. MM = 01 - 12, 88, 99 DD = 01 - 31, 88, 99 YYYY = Minimum year - system date year, 8888, 9999 Use 88, 8888 for not currently known, in progress to obtain information. Use 99, 9999 for not known. If century is known, but year is unknown then give an estimate of year or code YYYY = 9999. If MM = 99 then DD must = 99. If century is known, but year is unknown then give an estimate of year or code YYYY = 9999. If YYYY = 9999 then MM and DD must = 99.	
1980	Minimum year

Error Description
must be a valid date of format with minimum year of 1980

DATE_RECEIVED must be greater or equal to DATE_TAKEN

DATE_TAKEN

string (8)

Required:false

5

Date specimen was taken from patient.

Date Value Check

The date must follow to the following format:

Format YYYYMMDD. Must consist of valid date.

Components of date should be right justified and zero filled.

MM = 01 - 12, 88, 99

DD = 01 - 31, 88, 99

YYYY = **Minimum year** - system date year, 8888, 9999

Use 88, 8888 for not currently known, in progress to obtain information.

Use 99, 9999 for not known.

If century is known, but year is unknown then give an estimate of year or code YYYY = 9999.

If MM = 99 then DD must = 99.

If century is known, but year is unknown then give an estimate of year or code YYYY = 9999.

If YYYY = 9999 then MM and DD must = 99.

The following special parameters are used:

1980

Minimum year

Error Description

must be a valid date of format with minimum year of 1980

Module: biospecimens

Module Contents

dispatch

1. [CENTER_NO \(*PK\)](#)
2. [DISPATCH_CID \(*PK\)](#)
3. [DISPATCH_DATE](#)

1	CENTER_NO (*PK)	number (2,0)	Required: true
Center Identification Number. *CENTER_NO + DISPATCH_CID are the primary key for the table.			

Allowable Values	
11	Cancer Care Ontario
12	USC Consortium
13	University of Melbourne
14	Cancer Research Center of Hawaii
15	Mayo Clinic
16	Fred Hutchinson, Seattle
17	Northern California (NCCC)

2	DISPATCH_CID (*PK)	string (30)	Required: true
Center specific identifier used by centers for tracking a dispatch of biospecimens. *CENTER_NO + DISPATCH_CID are the primary key for the table.			

3	DISPATCH_DATE	string (8)	Required: true
Date specimen was sent.			

Date Value Check		
<p>The date must follow to the following format:</p> <p>Format YYYYMMDD. Must consist of valid date. Components of date should be right justified and zero filled. MM = 01 - 12, 88, 99 DD = 01 - 31, 88, 99 YYYY = Minimum year - system date year, 8888, 9999 Use 88, 8888 for not currently known, in progress to obtain information. Use 99, 9999 for not known. If century is known, but year is unknown then give an estimate of year or code YYYY = 9999. If MM = 99 then DD must = 99. If century is known, but year is unknown then give an estimate of year or code YYYY = 9999. If YYYY = 9999 then MM and DD must = 99.</p> <p>The following special parameters are used:</p> <table border="1"><tr><td>1980</td><td>Minimum year</td></tr></table>	1980	Minimum year
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<table border="1"><thead><tr><th>Error Description</th></tr></thead><tbody><tr><td>must be a valid date of format with minimum year of 1980</td></tr></tbody></table>	Error Description	must be a valid date of format with minimum year of 1980
Error Description		
must be a valid date of format with minimum year of 1980		

Module: biospecimens

Module Contents

dispatch-application

1. [CENTER_NO](#)
2. [DISPATCH_CID](#)
3. [DISPATCH_APPLICATION_CID](#)

1	CENTER_NO	number (2,0)	Required: true																
	Center Identification Number																		
	<table border="1"><thead><tr><th colspan="2">Allowable Values</th></tr></thead><tbody><tr><td>11</td><td>Cancer Care Ontario</td></tr><tr><td>12</td><td>USC Consortium</td></tr><tr><td>13</td><td>University of Melbourne</td></tr><tr><td>14</td><td>Cancer Research Center of Hawaii</td></tr><tr><td>15</td><td>Mayo Clinic</td></tr><tr><td>16</td><td>Fred Hutchinson, Seattle</td></tr><tr><td>17</td><td>Northern California (NCCC)</td></tr></tbody></table>			Allowable Values		11	Cancer Care Ontario	12	USC Consortium	13	University of Melbourne	14	Cancer Research Center of Hawaii	15	Mayo Clinic	16	Fred Hutchinson, Seattle	17	Northern California (NCCC)
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16	Fred Hutchinson, Seattle																		
17	Northern California (NCCC)																		
2	DISPATCH_CID	string (40)	Required: true																
	Center specific identifier used by centers for tracking a dispatch of biospecimens.																		
3	DISPATCH_APPLICATION_CID	string (40)	Required: true																
	Unique identifier for a Data/BioSpecimen Request.																		

Module: biospecimens

Module Contents

dispatch-item

1. [CENTER_NO \(*PK\)](#)
2. [DISPATCH_CID](#)
3. [DISPATCH_ITEM_CID \(*PK\)](#)
4. [BLOCK_PROD_CID](#)
5. [BLOOD_PROD_CID](#)
6. [FRESH_PROD_CID](#)
7. [LCL_CID](#)
8. [NUC_ACID_CID](#)
9. [AMT_UNIT](#)
10. [AMT_VALUE](#)

1	CENTER_NO (*PK)	number (2,0)	Required: true																
Center Identification Number. *CENTER_NO + DISPATCH_ITEM_CID are the primary key for the table.																			
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13	University of Melbourne																		
14	Cancer Research Center of Hawaii																		
15	Mayo Clinic																		
16	Fred Hutchinson, Seattle																		
17	Northern California (NCCC)																		
2	DISPATCH_CID	string (40)	Required: true																
Center specific identifier used by centers for tracking a dispatch of biospecimens.																			
3	DISPATCH_ITEM_CID (*PK)	string (40)	Required: true																
Center specific identifier used by centers for tracking a dispatch of individual biospecimens. *CENTER_NO + DISPATCH_ITEM_CID are the primary key for the table.																			
4	BLOCK_PROD_CID	string (18)	Required: false																
Unique local identifier used at a center to uniquely identify a block.																			
5	BLOOD_PROD_CID	string (12)	Required: false																
Identifier used internally by centers for a product from a blood draw.																			
6	FRESH_PROD_CID	string (10)	Required: false																
Identifier used internally by centers for a product of a fresh tissue specimen.																			
7	LCL_CID	string (11)	Required: false																
Identifier used internally by centers for a lymphocytic cell line transformation or expansion.																			
8	NUC_ACID_CID	string (12)	Required: false																
Identifier used internally by centers for a nucleic acid sample from a single extraction.																			
9	AMT_UNIT	number (2,0)	Required: true																
Unit of measure for the biospecimen dispatched																			

Allowable Values

- 1 count (slide, tube, plate)
- 2 sets (set of slides, tubes)
- 3 weight in milligrams, mg
- 4 weight in micrograms, ug
- 5 volume in milliliters, ml
- 6 volume in microliters, ul

Error Description

- If BLOCK_PROD_CID is not null, AMT_UNIT must be 1 or 2
- If BLOOD_PROD_CID is not null, AMT_UNIT must be 1,2,5 or 6
- If FRESH_PROD_CID is not null, AMT_UNIT must be 3,4
- If NUC_ACID_CID is not null, AMT_UNIT must be 4

10	AMT_VALUE	number (11,4)	Required: true
Numerical value for unites in AMT_UNIT			

Allowable Values	
0 to 9999999.9999 or -99	Range
-99	Unknown

Module: biospecimens

Module Contents

fresh-prod

1. [CENTER_NO \(*PK\)](#)
2. [FRESH_PROD_CID \(*PK\)](#)
3. [FRESH_SPEC_CID](#)
4. [IS_DISPATCHABLE](#)
5. [IS_DEPLETED](#)
6. [FRESH_PROD_TYPE](#)
7. [COUNT_ORIG](#)
8. [COUNT_REM](#)
9. [COUNT_REM_DISP](#)
10. [STORAGE_TEMP](#)
11. [LOCATION](#)

1	CENTER_NO (*PK)	number (2,0)	Required: true
Center Identification Number. *CENTER_NO + FRESH_PROD_CID are the primary key for the table.			

Allowable Values	
11	Cancer Care Ontario
12	USC Consortium
13	University of Melbourne
14	Cancer Research Center of Hawaii
15	Mayo Clinic
16	Fred Hutchinson, Seattle
17	Northern California (NCCC)

2	FRESH_PROD_CID (*PK)	string (12)	Required: true
Identifier used internally by centers for a product of a fresh tissue specimen or group of fresh tissue specimens. *CENTER_NO + FRESH_PROD_CID are the primary key for the table.			

3	FRESH_SPEC_CID	string (9)	Required: true
Unique local identifier used at a center to uniquely identify a fresh tissue specimen.			

4	IS_DISPATCHABLE	number (1,0)	Required: true
Indicates whether the center is willing to dispatch the material to external investigators.			

Allowable Values

1	Yes
2	No

Error Description

If IS_DEPLETED = 1, IS_DISPATCHABLE must be 2

5	IS_DEPLETED	number (1,0)	Required: true
Indicates whether the material has been depleted through testing, processing, and dispatching.			

Allowable Values

1	Yes
---	-----

2	No
---	----

6	FRESH_PROD_TYPE	number (1,0)	Required: true
Type of fresh frozen tissues product			

Allowable Values	
1	Fresh frozen
2	Fresh frozen
3	Embedded in OCT, then frozen

7	COUNT_ORIG	number (4,0)	Required: true
Original number of tubes in the group corresponding to this record.			

Error Description
COUNT_ORIG must be greater or equal to COUNT_REM

8	COUNT_REM	number (4,0)	Required: true
Current number of tubes in the group corresponding to this record remaining at the time of transmission (includes material held in reserve).			

Error Description
COUNT_REM must be less than or equal to COUNT_ORIG

9	COUNT_REM_DISP	number (4,0)	Required: true
Current number of tubes in the group corresponding to this record remaining at the time of transmission that is available for dispatch (excludes material held in reserve).			

Error Description
COUNT_REM_DISP must be less than or equal to COUNT_REM

10	STORAGE_TEMP	number (1,0)	Required: false
Storage temperature for fresh frozen specimen			

Allowable Values	
1	-20 °C
2	-80 °C
3	Liquid nitrogen (smaller than -140°C)

11	LOCATION	number (1,0)	Required: false
Storage site for a specimen.			

Allowable Values	
1	Center

2	CORIELL
3	SAIC
4	Multiple Sites
9	Unknown/lost

Module: biospecimens

Module Contents

fresh-spec

1. [CENTER_NO \(*PK\)](#)
2. [PERSON_ID](#)
3. [TUMOR_NO](#)
4. [POLYP_NO](#)
5. [FRESH_SPEC_CID \(*PK\)](#)
6. [DATE_TAKEN](#)
7. [COLLECTION_CID](#)
8. [NORMAL_ONLY](#)
9. [FRESH_SOURCE](#)
10. [PATH_REPORT_RECEIVED](#)

1	CENTER_NO (*PK)	number (2,0)	Required: true
Center Identification Number. *CENTER_NO + FRESH_SPEC_CID are the primary key for the table.			

Allowable Values	
11	Cancer Care Ontario
12	USC Consortium
13	University of Melbourne
14	Cancer Research Center of Hawaii
15	Mayo Clinic
16	Fred Hutchinson, Seattle
17	Northern California (NCCC)

2	PERSON_ID	string (12)	Required: true
Number that uniquely identifies an individual.			

3	TUMOR_NO	number (2,0)	Required: false
Sequential number, starting with "1", assigned to each tumor for a given individual when entered into the local system.			

Allowable Values			
1 to 99 or -9, -15	Range		
1, 2, 3, ...	Number of tumor on cancer table		
-9	NA/Out of scope: Tissue is not cancer or contiguous adenoma		
-15	Information Unknown		
<table border="1" style="margin: 10px auto;"> <tr> <th style="text-align: center;">Error Description</th> </tr> <tr> <td style="text-align: center;">If NORMAL_ONLY = 1, TUMOR_NO must be null</td> </tr> </table>		Error Description	If NORMAL_ONLY = 1, TUMOR_NO must be null
Error Description			
If NORMAL_ONLY = 1, TUMOR_NO must be null			

4	POLYP_NO	number (1,0)	Required: false
Sequential number over range of 1 to 3 to distinguish a polyp removed on a particular date.			

Allowable Values	
1 to 3 or -9, -1	Range

-9	NA/Out of scope. Tissue is not a polyp
-1	Polyp has IHC/MSI result but center is currently unable to locate polyp pathology information. Center review to obtain this information is currently underway

Error Description

If NORMAL_ONLY is 1, POLYP_NO must be null

5	FRESH_SPEC_CID (*PK)	string (9)	Required: true
	Unique local identifier used at a center to uniquely identify a fresh tissue specimen. *CENTER_NO + FRESH_SPEC_CID are the primary key for the table.		

6	DATE_TAKEN	string (8)	Required: true
	Date specimen was taken from patient		

Date Value Check

The date must follow to the following format:

Format YYYYMMDD. Must consist of valid date.
 Components of date should be right justified and zero filled.
 MM = 01 - 12, 88, 99
 DD = 01 - 31, 88, 99
 YYYY = **Minimum year** - system date year, 8888, 9999
 Use 88, 8888 for not currently known, in progress to obtain information.
 Use 99, 9999 for not known.
 If century is known, but year is unknown then give an estimate of year or code YYYY = 9999.
 If MM = 99 then DD must = 99.
 If century is known, but year is unknown then give an estimate of year or code YYYY = 9999.
 If YYYY = 9999 then MM and DD must = 99.

The following special parameters are used:

1980	Minimum year
-------------	--------------

Error Description

must be a valid date of format with minimum year of 1980

7	COLLECTION_CID	string (10)	Required: true
	Identifier used internally by centers to denote a unique surgical event		

8	NORMAL_ONLY	number (1,0)	Required: true
	Indicates that the specimen/product contains only normal tissue.		

Allowable Values	
1	Yes
2	No

Error Description

If TUMOR_NO not null, NORMAL_ONLY must be 2

If POLYP_NO not null, must be 2

9	FRESH_SOURCE	string (21)	Required: false
	Source or origin in as much detail as is known. For tumors, ICD-O-3 site code should be used.		

10	PATH_REPORT_RECEIVED	number (1,0)	Required: false								
Indicates whether a pathology report has been received for subject specimen.											
<table border="1"><thead><tr><th colspan="2">Allowable Values</th></tr></thead><tbody><tr><td>1</td><td>Yes</td></tr><tr><td>2</td><td>No</td></tr><tr><td>9</td><td>Not Known</td></tr></tbody></table>				Allowable Values		1	Yes	2	No	9	Not Known
Allowable Values											
1	Yes										
2	No										
9	Not Known										

Module: biospecimens

Module Contents

Icl-prod

1. [CENTER_NO \(*PK\)](#)
2. [PERSON_ID](#)
3. [LCL_CID \(*PK\)](#)
4. [LCL_PROD_TYPE](#)
5. [LCL_TYPE_REM](#)
6. [LCL_DISCARDED](#)
7. [LCL_MYCOPLASMA](#)
8. [LCL_RECOVERY](#)
9. [GENERATION](#)
10. [LCL_CID_SOURCE](#)
11. [BLOOD_PROD_CID](#)
12. [IS_DISPATCHABLE](#)
13. [LOCATION](#)
14. [LCL_COUNT](#)
15. [LCL_COUNT_REM](#)
16. [DATE_FROZEN](#)

1	CENTER_NO (*PK)	number (2,0)	Required: true																
Center Identification Number. *CENTER_NO + LCL_CID are the primary key for the table.																			
<table border="1"><thead><tr><th colspan="2">Allowable Values</th></tr></thead><tbody><tr><td>11</td><td>Cancer Care Ontario</td></tr><tr><td>12</td><td>USC Consortium</td></tr><tr><td>13</td><td>University of Melbourne</td></tr><tr><td>14</td><td>Cancer Research Center of Hawaii</td></tr><tr><td>15</td><td>Mayo Clinic</td></tr><tr><td>16</td><td>Fred Hutchinson, Seattle</td></tr><tr><td>17</td><td>Northern California (NCCC)</td></tr></tbody></table>				Allowable Values		11	Cancer Care Ontario	12	USC Consortium	13	University of Melbourne	14	Cancer Research Center of Hawaii	15	Mayo Clinic	16	Fred Hutchinson, Seattle	17	Northern California (NCCC)
Allowable Values																			
11	Cancer Care Ontario																		
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16	Fred Hutchinson, Seattle																		
17	Northern California (NCCC)																		
2	PERSON_ID	string (12)	Required: true																
Number that uniquely identifies an individual.																			
3	LCL_CID (*PK)	string (17)	Required: true																
Identifier used internally by centers for a Lymphoblast cell line transformation or expansion. *CENTER_NO + LCL_CID are the primary key for the table.																			
4	LCL_PROD_TYPE	number (1,0)	Required: true																
Total type of frozen aliquots made during this transformation or expansion.																			
<table border="1"><thead><tr><th colspan="2">Allowable Values</th></tr></thead><tbody><tr><td>1</td><td>LCL_FREEZE single</td></tr><tr><td>2</td><td>LCL_FREEZE set</td></tr><tr><td>3</td><td>LCL_cell_Pellet single</td></tr><tr><td>4</td><td>LCL_cell_pellet set</td></tr></tbody></table>				Allowable Values		1	LCL_FREEZE single	2	LCL_FREEZE set	3	LCL_cell_Pellet single	4	LCL_cell_pellet set						
Allowable Values																			
1	LCL_FREEZE single																		
2	LCL_FREEZE set																		
3	LCL_cell_Pellet single																		
4	LCL_cell_pellet set																		
5	LCL_TYPE_REM	number (1,0)	Required: false																

Type of frozen aliquots currently remaining that were made during this transformation or expansion.

Allowable Values

1 LCL_FREEZE single

2 LCL_FREEZE set

3 LCL_cell_Pellet single

4 LCL_cell_pellet set

LCL_DISCARDED

number (1,0)

Required: true

Indicates whether the materials from this Lymphoblast cell line transformation or expansion was discarded.

Allowable Values

1 Yes

2 No

LCL_MYCOPLASMA

number (1,0)

Required: true

Results of mycoplasma testing against this Lymphoblast cell line transformation or expansion.

Allowable Values

1 Positive (Mycoplamsa tested and was present)

2 Negative (Mycoplasma tested and was not present)

9 Not tested

Error Description

must be 1, 2 or 9

LCL_RECOVERY

number (1,0)

Required: true

Results of Lymphoblast cell line freeze recovery test.

Allowable Values

1 Pass/O.K

2 Fail/Not O.K

9 Not tested

GENERATION

number (1,0)

Required: true

Generation or passage of culture.

Allowable Values

1 Line made from Lymphoblast (transformed)

2 Line made from LCL with GENERATION

3 Line made from LCL with GENERATION

4 Line made from LCL with GENERATION

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10	LCL_CID_SOURCE	string (11)	Required:false
	LCL_CID of the sample used to expand cell lines		

Error Description
If GENERATION = 1, LCL_CID_SOURCE must be null
If GENERATION is greater than 1, LCL_CID_SOURCE must not be null

11	BLOOD_PROD_CID	string (16)	Required:false
	Identifier used internally by centers for a product from a blood draw.		

Error Description
If GENERATION = 1, BLOOD_PROD_CID must not be null
If GENERATION greater than 1, BLOOD_PROD_CID must be null

12	IS_DISPATCHABLE	number (1,0)	Required:true
	Indicates whether the center is willing to dispatch the material to external investigators.		

Allowable Values	
1	Yes
2	No

13	LOCATION	number (1,0)	Required:true
	Storage site for a specimen.		

Allowable Values	
1	Center
2	CORIELL
3	SAIC
4	Multiple Sites
9	Unknown/lost

14	LCL_COUNT	number (4,0)	Required:false
	Total number of aliquots made during this transformation or expansion.		

15	LCL_COUNT_REM	number (4,0)	Required:false
	Number of aliquots remaining from this transformation or expansion.		

Error Description
LCL_COUNT_REM must be less than or equal to LCL_COUNT

16	DATE_FROZEN	string (8)	Required:false
----	--------------------	------------	----------------

Date the LCL was frozen.

Date Value Check

The date must follow to the following format:

Format YYYYMMDD. Must consist of valid date.

Components of date should be right justified and zero filled.

MM = 01 - 12, 88, 99

DD = 01 - 31, 88, 99

YYYY = **Minimum year** - system date year, 8888, 9999

Use 88, 8888 for not currently known, in progress to obtain information.

Use 99, 9999 for not known.

If century is known, but year is unknown then give an estimate of year or code YYYY = 9999.

If MM = 99 then DD must = 99.

If century is known, but year is unknown then give an estimate of year or code YYYY = 9999.

If YYYY = 9999 then MM and DD must = 99.

The following special parameters are used:

1980	Minimum year
-------------	--------------

Error Description

must be a valid date of format with minimum year of 1980
--

Module: biospecimens

Module Contents

nuc-acid

1. [CENTER_NO \(*PK\)](#)
2. [PERSON_ID](#)
3. [NUC_ACID_CID \(*PK\)](#)
4. [NUC_ACID_TYPE](#)
5. [DATE_MADE](#)
6. [IS_DEPLETED](#)
7. [IS_DISPATCHABLE](#)
8. [LOCATION](#)
9. [IDENTITY_TEST](#)
10. [IDENTITY_TEST_DATE](#)
11. [NUC_ACID_AMT_REM](#)
12. [NUC_ACID_AMT_REM_DISP](#)
13. [NUC_ACID_SOURCE](#)
14. [BLOOD_PROD_CID](#)
15. [BLOCK_PROD_CID](#)
16. [FRESH_PROD_CID](#)
17. [LCL_CID](#)
18. [ORAL_SPEC_CID](#)
19. [QC_A260_280](#)
20. [QC_MATCH](#)
21. [QUANTITATION_METHOD](#)

1	CENTER_NO (*PK)	number (2,0)	Required: true
Center Identification Number. *CENTER_NO + NUC_ACID_CID are the primary key for the table.			

Allowable Values	
11	Cancer Care Ontario
12	USC Consortium
13	University of Melbourne
14	Cancer Research Center of Hawaii
15	Mayo Clinic
16	Fred Hutchinson, Seattle
17	Northern California (NCCC)

2	PERSON_ID	string (12)	Required: true
Number that uniquely identifies an individual.			

3	NUC_ACID_CID (*PK)	string (12)	Required: true
Identifier used internally by centers for a nucleic acid sample from a single extraction. Center Identification Number. *CENTER_NO + NUC_ACID_CID are the primary key for the table.			

4	NUC_ACID_TYPE	number (1,0)	Required: true
Type of nucleic acid.			

Allowable Values	
1	DNA
2	RNA
9	Unknown

DATE_MADE

string (8)

Required: true

5

Date specimen was made.

Date Value Check

The date must follow to the following format:

Format YYYYMMDD. Must consist of valid date.

Components of date should be right justified and zero filled.

MM = 01 - 12, 88, 99

DD = 01 - 31, 88, 99

YYYY = **Minimum year** - system date year, 8888, 9999

Use 88, 8888 for not currently known, in progress to obtain information.

Use 99, 9999 for not known.

If century is known, but year is unknown then give an estimate of year or code YYYY = 9999.

If MM = 99 then DD must = 99.

If century is known, but year is unknown then give an estimate of year or code YYYY = 9999.

If YYYY = 9999 then MM and DD must = 99.

The following special parameters are used:

1980

Minimum year

Error Description

must be a valid date of format with minimum year of 1980

IS_DEPLETED

number (1,0)

Required: true

6

Indicates whether the material has been depleted through testing, processing, and dispatching.

Allowable Values

1

Yes

2

No

IS_DISPATCHABLE

number (1,0)

Required: true

7

Indicates whether the center is willing or able to dispatch the material to external investigators.

Allowable Values

1

Yes

2

No

Error Description

If IS_DEPLETED = 1, IS_DISPATCHABLE must be 2

LOCATION

number (1,0)

Required: true

8

Storage site for a specimen.

Allowable Values

1

Center

2

CORIELL

3

SAIC

- 4 Multiple Sites
- 9 Unknown/lost

9	IDENTITY_TEST	number (1,0)	Required: false
Indicates the outcome of identity testing. The identity of a DNA aliquot is compared to the identity of the stock DNA from which it originated.			

- | Allowable Values | |
|------------------|----------------|
| 1 | Pass/Yes match |
| 2 | Fail/No match |
| 3 | Not done |

10	IDENTITY_TEST_DATE	string (8)	Required: false
Indicated the date for QC identity testing.			

Date Value Check		
<p>The date must follow to the following format:</p> <p>Format YYYYMMDD. Must consist of valid date. Components of date should be right justified and zero filled. MM = 01 - 12, 88, 99 DD = 01 - 31, 88, 99 YYYY = Minimum year - system date year, 8888, 9999 Use 88, 8888 for not currently known, in progress to obtain information. Use 99, 9999 for not known. If century is known, but year is unknown then give an estimate of year or code YYYY = 9999. If MM = 99 then DD must = 99. If century is known, but year is unknown then give an estimate of year or code YYYY = 9999. If YYYY = 9999 then MM and DD must = 99.</p> <p>The following special parameters are used:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%; text-align: center;">1980</td> <td>Minimum year</td> </tr> </table>	1980	Minimum year
1980	Minimum year	

- | Error Description |
|--|
| must be a valid date of format with minimum year of 1980 |
| IDENTITY_TEST_DATE must be greater or equal to DATE_MADE |

11	NUC_ACID_AMT_REM	number (6,2)	Required: false
Amount of nucleic acid remaining at time of reporting in micrograms (includes material held in reserve).			

- | Allowable Values | |
|----------------------------|------------------|
| 0 to 99999.99 or -9 | Range |
| -9 | Unknown quantity |

12	NUC_ACID_AMT_REM_DISP	number (7,2)	Required: false
Amount of nucleic acid remaining at time of reporting in micrograms that is available for dispatch (excludes material held in reserve).			

Allowable Values	
0 to 99999.99 or -9	Range
-9	Unknown quantity

Error Description

must be less than or equal to NUC_ACID_AMT_REM

13	NUC_ACID_SOURCE	number (2,0)	Required: false
Specimen type for source of nucleic acid.			

Allowable Values	
1	Whole Blood Aliquot cryo-preserved with DMSO
2	Frozen Tissue
3	Paraffin Block Section
4	Buffy Coat
5	White Blood Cells isolated using a Ficoll
6	Lymphoblastoid Cells
7	Buccal Smeart
8	Whole Blood
9	Granulocytes
11	Blood Spots (guithrie)
12	Mouth Wash
13	Lymphocyte pellet
14	Slide
15	Saliva
16	Whole Genome amplified DNA

Error Description

If BLOOD_PROD_CID is not null, NUC_ACID_SOURCE must be in (1,4,5,8,9,11,16)

If BLOCK_PROD_CID is not null, NUC_ACID_SOURCE must be in (3,14,16)

14	BLOOD_PROD_CID	string (12)	Required: false
Unique local identifier used at a center to uniquely identify a blood tissue specimen.			

Error Description

If NUC_ACID_SOURCE is in (1,4,5,8,9,11), BLOOD_PROD_CID must not be null

If NUC_ACID_SOURCE not in (1,4,5,8,9,11), BLOOD_PROD_CID must be null

15	BLOCK_PROD_CID	string (15)	Required: false
Unique local identifier used at a center to uniquely identify a block.			

Error Description
If NUC_ACID_SOURCE is in (3,14), BLOCK_PROD_CID must not be null
If NUC_ACID_SOURCE is not in (3,14), BLOCK_PROD_CID must be null

16	FRESH_PROD_CID	string (15)	Required:false
Identifier used internally by centers for a product of a fresh tissue specimen.			

Error Description
If NUC_ACID_SOURCE is 2, FRESH_PROD_CID must not be null
If NUC_ACID_SOURCE is not 2, FRESH_PROD_CID must be null

17	LCL_CID	string (10)	Required:false
Identifier used internally by centers for a lymphocytic cell line transformation or expansion.			

Error Description
If NUC_ACID_SOURCE is 6, LCL_CID must not be null
If NUC_ACID_SOURCE is not 6, LCL_CID must be null

18	ORAL_SPEC_CID	string (40)	Required:false
Identifier used internally by centers for an oral sample.			

Error Description
If NUC_ACID_SOURCE in (7,12,15), ORAL_SPEC_CID must not be null
If NUC_ACID_SOURCE not in (7,12,15), ORAL_SPEC_CID must be null

19	QC_A260_280	number (6,2)	Required:false
A ratio of the optical density of a nucleic acid at 260 nm and 280 nm. This ratio provides an indication about the DNA or RNA quality purity.			

Allowable Values	
0.0 to 3.0 or -9	Range
<input type="text"/>	<input type="text"/>
-9	Unknown

Error Description
If NUC_ACID_SOURCE in (1,2,3,4,5,6,7,8,9,12,13,14,15,16), QC_A260_280 must not be null

20	QC_MATCH	number (1,0)	Required:false
Confirmation that Nucleic Acid from LCL/GC/WBC/paraffin DNA match. For example, the DNA stock from once source is compared with the DNA stock from an alternate source from the same person.			

Allowable Values	
1	Yes match
<input type="text"/>	<input type="text"/>

2 No match

9 Not done

21

QUANTITATION_METHOD

number (1,0)

Required: false

Method by which nucleic acid samples have their amount remaining value quantified.

Allowable Values

1 PICO Green

2 Spectrophotometry

3 Nano-drop

4 Other

Module: biospecimens

Module Contents

oral-spec

1. [CENTER_NO \(*PK\)](#)
2. [PERSON_ID](#)
3. [ORAL_SPEC_CID \(*PK\)](#)
4. [DATE_RECEIVED](#)
5. [DATE_TAKEN](#)
6. [IS_DEPLETED](#)
7. [ORAL_TYPE](#)

1	CENTER_NO (*PK)	number (2,0)	Required: true
Center Identification Number. *CENTER_NO + ORAL_SPEC_CID are the primary key for the table.			

Allowable Values	
11	Cancer Care Ontario
12	USC Consortium
13	University of Melbourne
14	Cancer Research Center of Hawaii
15	Mayo Clinic
16	Fred Hutchinson, Seattle
17	Northern California (NCCC)

2	PERSON_ID	string (12)	Required: true
Number that uniquely identifies an individual.			

3	ORAL_SPEC_CID (*PK)	string (40)	Required: true
Identifier used internally by centers for a oral sample. *CENTER_NO + ORAL_SPEC_CID are the primary key for the table.			

4	DATE_RECEIVED	string (8)	Required: true
Date specimen was received into the laboratory of a center.			

Date Value Check	
The date must follow to the following format: Format YYYYMMDD. Must consist of valid date. Components of date should be right justified and zero filled. MM = 01 - 12, 88, 99 DD = 01 - 31, 88, 99 YYYY = Minimum year - system date year, 8888, 9999 Use 88, 8888 for not currently known, in progress to obtain information. Use 99, 9999 for not known. If century is known, but year is unknown then give an estimate of year or code YYYY = 9999. If MM = 99 then DD must = 99. If century is known, but year is unknown then give an estimate of year or code YYYY = 9999. If YYYY = 9999 then MM and DD must = 99.	
1980	Minimum year
Error Description	
must be a valid date of format with minimum year of 1980	

DATE_RECEIVED must be greater or equal to DATE_TAKEN

5 **DATE_TAKEN**

string (8)

Required: false

Date specimen was taken from patient.

Date Value Check

The date must follow to the following format:

Format YYYYMMDD. Must consist of valid date.

Components of date should be right justified and zero filled.

MM = 01 - 12, 88, 99

DD = 01 - 31, 88, 99

YYYY = **Minimum year** - system date year, 8888, 9999

Use 88, 8888 for not currently known, in progress to obtain information.

Use 99, 9999 for not known.

If century is known, but year is unknown then give an estimate of year or code YYYY = 9999.

If MM = 99 then DD must = 99.

If century is known, but year is unknown then give an estimate of year or code YYYY = 9999.

If YYYY = 9999 then MM and DD must = 99.

The following special parameters are used:

1980

Minimum year

Error Description

must be a valid date of format with minimum year of 1980

6 **IS_DEPLETED**

number (1,0)

Required: true

Indicates whether the material has been depleted through testing, processing, and dispatching.

Allowable Values

1 Yes

2 No

7 **ORAL_TYPE**

number (1,0)

Required: true

Type of oral specimen.

Allowable Values

1 Buccal smear

2 Mouth wash

3 Saliva

Module: biospecimens

Module Contents

qc-test-outcome

1. [CENTER_NO \(*PK\)](#)
2. [NUC_ACID_CID \(*PK\)](#)
3. [QC_AGAROSE_GEL](#)
4. [QC_ECOR1](#)
5. [QC_HIND_III](#)
6. [QC_STR1](#)
7. [QC_STR2](#)
8. [QC_Y](#)
9. [QC_CROSS_CHECK](#)
10. [QC_CROSS_MATCH](#)
11. [QC_SUMMARY](#)
12. [QC_SUMM_FAIL](#)
13. [QC_CC](#)
14. [QC_CC_FAIL](#)
15. [QC_IC](#)

1	CENTER_NO (*PK)	number (2,0)	Required: true
Center Identification Number. *CENTER_NO + NUC_ACID_CID are the primary key for the table.			

Allowable Values			
11	Cancer Care Ontario		
12	USC Consortium		
13	University of Melbourne		
14	Cancer Research Center of Hawaii		
15	Mayo Clinic		
16	Fred Hutchinson, Seattle		
17	Northern California (NCCC)		

2	NUC_ACID_CID (*PK)	string (40)	Required: true
Identifier used internally by centers for a nucleic acid sample from a single extraction. *CENTER_NO + NUC_ACID_CID are the primary key for the table.			

3	QC_AGAROSE_GEL	number (1,0)	Required: false
Quality of DNA or RNA. The behavior on the gel indicates integrity of DNA or RNA.			

Allowable Values			
1	Good		
2	Not Good		
3	Poor (for RNA only)		
9	not done		

4	QC_ECOR1	number (1,0)	Required: false
Digestibility with the restriction endonuclease EcoR1.			

Allowable Values			
1	Good		

2 Not Good

9 Not done

5 **QC_HIND_III** number (1,0) Required: false

Digestibility with the restriction endonuclease Hind III.

Allowable Values

1 Good

2 Not Good

9 Not done

6 **QC_STR1** number (1,0) Required: false

Microsatellite STR1 [UT1699 (D10S526)].

Allowable Values

1 Homozygote

2 Heterozygote

9 Not done

7 **QC_STR2** number (1,0) Required: false

Microsatellite STR2 [UT1091 (D22S417)].

Allowable Values

1 Homozygote

2 Heterozygote

9 Not done

8 **QC_Y** number (1,0) Required: false

Y Chromosome test.

Allowable Values

0 Negative

1 Positive

9 Not done

9 **QC_CROSS_CHECK** number (1,0) Required: false

Sent to lab for QC testing.

Allowable Values

1 Yes/Sent

2 No/Not Sent

10	QC_CROSS_MATCH	number (1,0)	Required: false										
Results from second lab identical.													
<table border="1"> <tr><th colspan="2">Allowable Values</th></tr> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> </table>				Allowable Values		1	Yes	2	No				
Allowable Values													
1	Yes												
2	No												
11	QC_SUMMARY	number (1,0)	Required: false										
Summary result of QC procedures													
<table border="1"> <tr><th colspan="2">Allowable Values</th></tr> <tr><td>1</td><td>Passed (research lab protocol)</td></tr> <tr><td>2</td><td>Passed (clinical lab protocol)</td></tr> <tr><td>3</td><td>Failed</td></tr> <tr><td>9</td><td>Not Done</td></tr> </table>				Allowable Values		1	Passed (research lab protocol)	2	Passed (clinical lab protocol)	3	Failed	9	Not Done
Allowable Values													
1	Passed (research lab protocol)												
2	Passed (clinical lab protocol)												
3	Failed												
9	Not Done												
12	QC_SUMM_FAIL	string (150)	Required: false										
Text field to indicate which component (gel/RE/PCR) was problematic.													
13	QC_CC	number (1,0)	Required: false										
Cross-check quality control testing.													
<table border="1"> <tr><th colspan="2">Allowable Values</th></tr> <tr><td>1</td><td>Pass</td></tr> <tr><td>2</td><td>Fail</td></tr> <tr><td>9</td><td>Not done</td></tr> </table>				Allowable Values		1	Pass	2	Fail	9	Not done		
Allowable Values													
1	Pass												
2	Fail												
9	Not done												
14	QC_CC_FAIL	string (150)	Required: false										
Text field to indicate which component of quality control cross check failed.													
15	QC_IC	number (1,0)	Required: false										
Microsatellite markers in DNA specimen matched Guthrie spot for this individual.													
<table border="1"> <tr><th colspan="2">Allowable Values</th></tr> <tr><td>1</td><td>Yes</td></tr> <tr><td>2</td><td>No</td></tr> <tr><td>9</td><td>Not done</td></tr> </table>				Allowable Values		1	Yes	2	No	9	Not done		
Allowable Values													
1	Yes												
2	No												
9	Not done												