Module: biospecimens

Module Contents

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	Sinai Health Systems (formerly Cancer Care Ontario)
	12	Cedars-Sinai & Cleveland Clinic (formerly USC Consortium)
	13	University of Melbourne
	14	University of Hawaii Cancer Center
	15	Mayo Clinic
	16	Fred Hutch, Seattle
	17	UCSF: University of California at San Franscisco (formerly CPIC, originally 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

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	Sinai Health Systems (formerly Cancer Care Ontario)
12	Cedars-Sinai & Cleveland Clinic (formerly USC Consortium)
13	University of Melbourne
14	University of Hawaii Cancer Center
15	Mayo Clinic
16	Fred Hutch, Seattle
17	UCSF: University of California at San Franscisco (formerly CPIC, originally 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
10	Metastic
11	Local recurrence

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

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	Sinai Health Systems (formerly Cancer Care Ontario)
12	Cedars-Sinai & Cleveland Clinic (formerly USC Consortium)
13	University of Melbourne
14	University of Hawaii Cancer Center
15	Mayo Clinic
16	Fred Hutch, Seattle
17	UCSF: University of California at San Franscisco (formerly CPIC, originally 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

9	**COUNT_REM_DISP**	number (4,0)	Required:false
	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

10	**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

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

11	**DATE_TIME_PROCESSED**	number (12,0)	Required:false
	Records the date and time sample was processed		

12	**AMT_ORIG**	number (6,2)	Required:false
	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

13	**AMT_REM**	number (6,2)	Required:false
	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

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	Sinai Health Systems (formerly Cancer Care Ontario)
12	Cedars-Sinai & Cleveland Clinic (formerly USC Consortium)
13	University of Melbourne
14	University of Hawaii Cancer Center
15	Mayo Clinic
16	Fred Hutch, Seattle
17	UCSF: University of California at San Franscisco (formerly CPIC, originally 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.

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		

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.
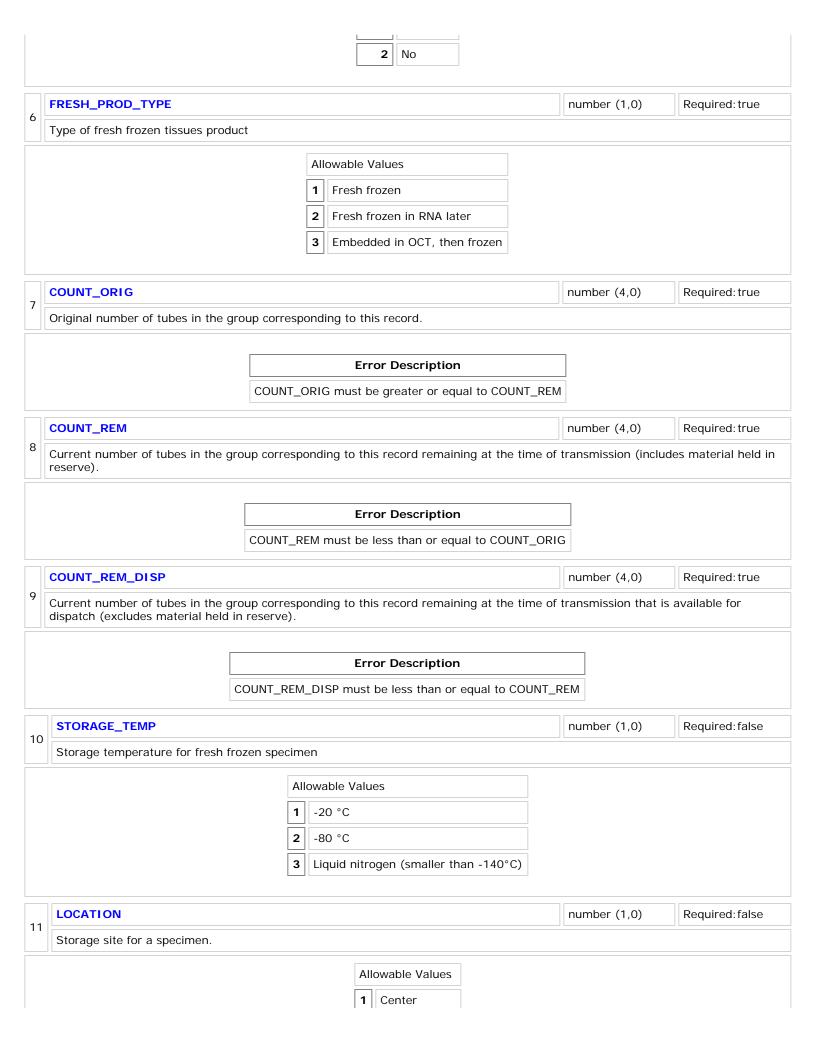
The following special parameters are used:

1980	Minimum year

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

Module: biospecimens

Module Contents

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

	Allowable Values
11	Sinai Health Systems (formerly Cancer Care Ontario)
12	Cedars-Sinai & Cleveland Clinic (formerly USC Consortium)
13	University of Melbourne
14	University of Hawaii Cancer Center
15	Mayo Clinic
16	Fred Hutch, Seattle
17	UCSF: University of California at San Franscisco (formerly CPIC, originally Northern California (NCCC))

	FRESH_PROD_CID (*PK)	string (12)	Required: true
2	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.		

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

	IS_DISPATCHABLE	number (1,0)	Required: true
4	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

	IS_DEPLETED	number (1,0)	Required: true
5	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 in RNA later
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

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	Sinai Health Systems (formerly Cancer Care Ontario)
12	Cedars-Sinai & Cleveland Clinic (formerly USC Consortium)
13	University of Melbourne
14	University of Hawaii Cancer Center
15	Mayo Clinic
16	Fred Hutch, Seattle
17	UCSF: University of California at San Franscisco (formerly CPIC, originally 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 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.		

Allowable Values	
1	Yes
2	No
9	Not Known

Module: biospecimens

Module Contents

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

	Allowable Values	
	11	Sinai Health Systems (formerly Cancer Care Ontario)
	12	Cedars-Sinai & Cleveland Clinic (formerly USC Consortium)
	13	University of Melbourne
	14	University of Hawaii Cancer Center
	15	Mayo Clinic
	16	Fred Hutch, Seattle
	17	UCSF: University of California at San Franscisco (formerly CPIC, originally 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.		

	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

6	**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

7	**LCL_MYCOPLASMA**	number (1,0)	Required:true

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

Allowable Values	
1	Positive (Mycoplasma tested and was present)
2	Negative (Mycoplasma tested and was not present)
9	Not tested

Error Description
must be 1, 2 or 9

8	**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

9	**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

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

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	Sinai Health Systems (formerly Cancer Care Ontario)
	12	Cedars-Sinai & Cleveland Clinic (formerly USC Consortium)
	13	University of Melbourne
	14	University of Hawaii Cancer Center
	15	Mayo Clinic
	16	Fred Hutch, Seattle
	17	UCSF: University of California at San Franscisco (formerly CPIC, originally 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

5	**DATE_MADE**			string (8)	Required: true

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

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	**IS_DISPATCHABLE**	number (1,0)	Required: true

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

8	**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

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

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.

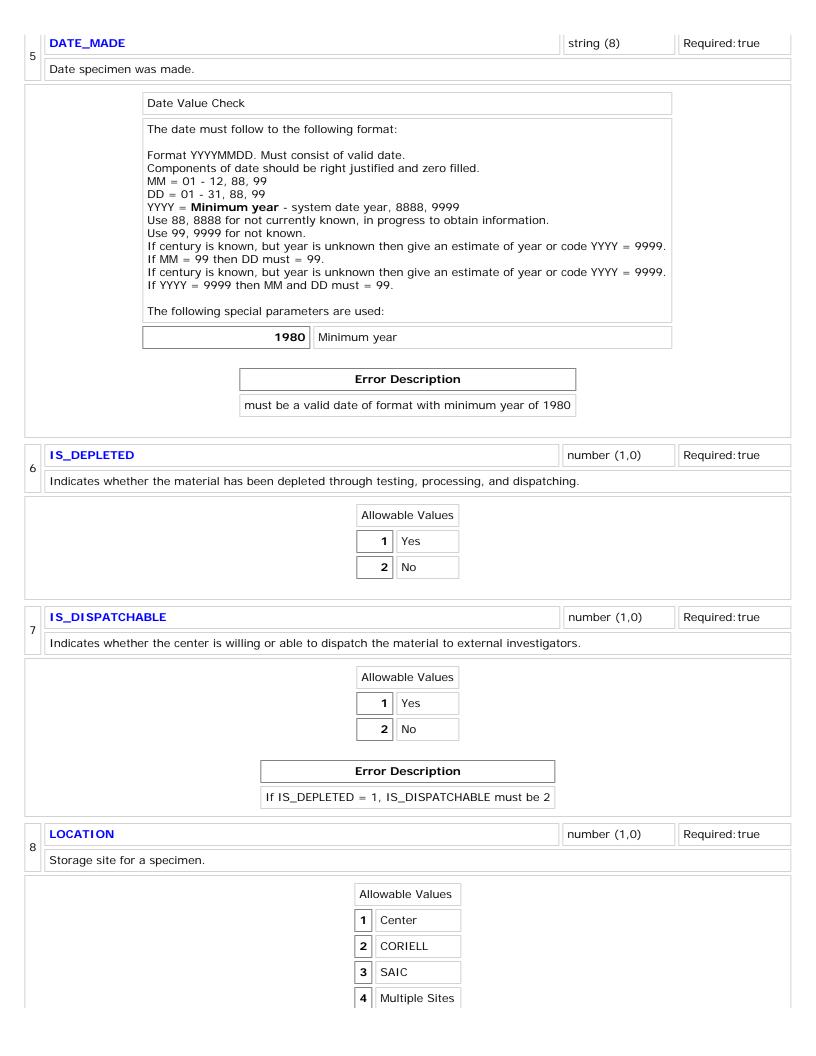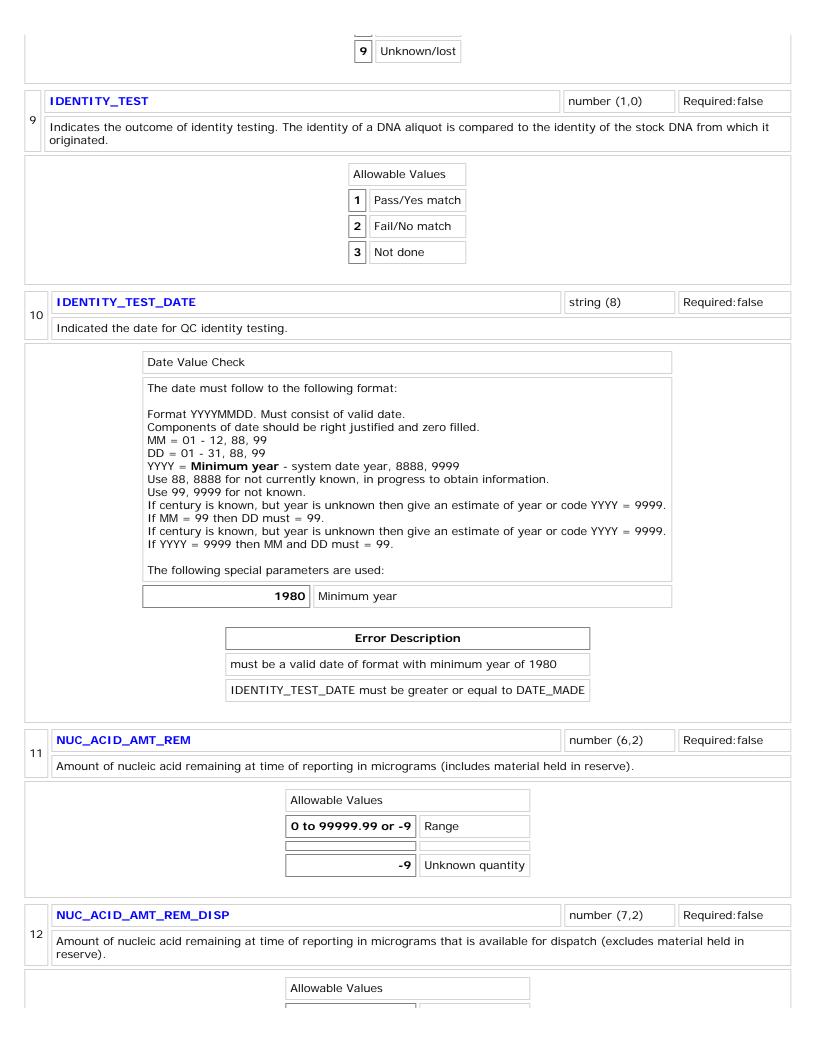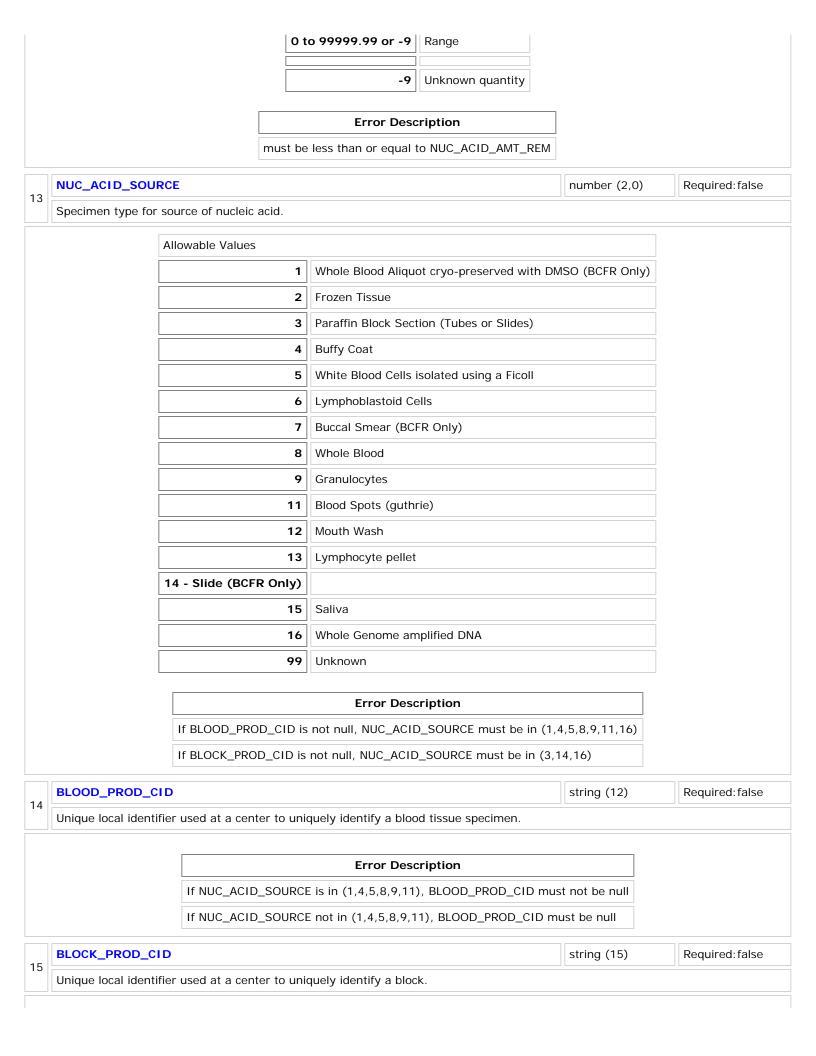The following special parameters are used:

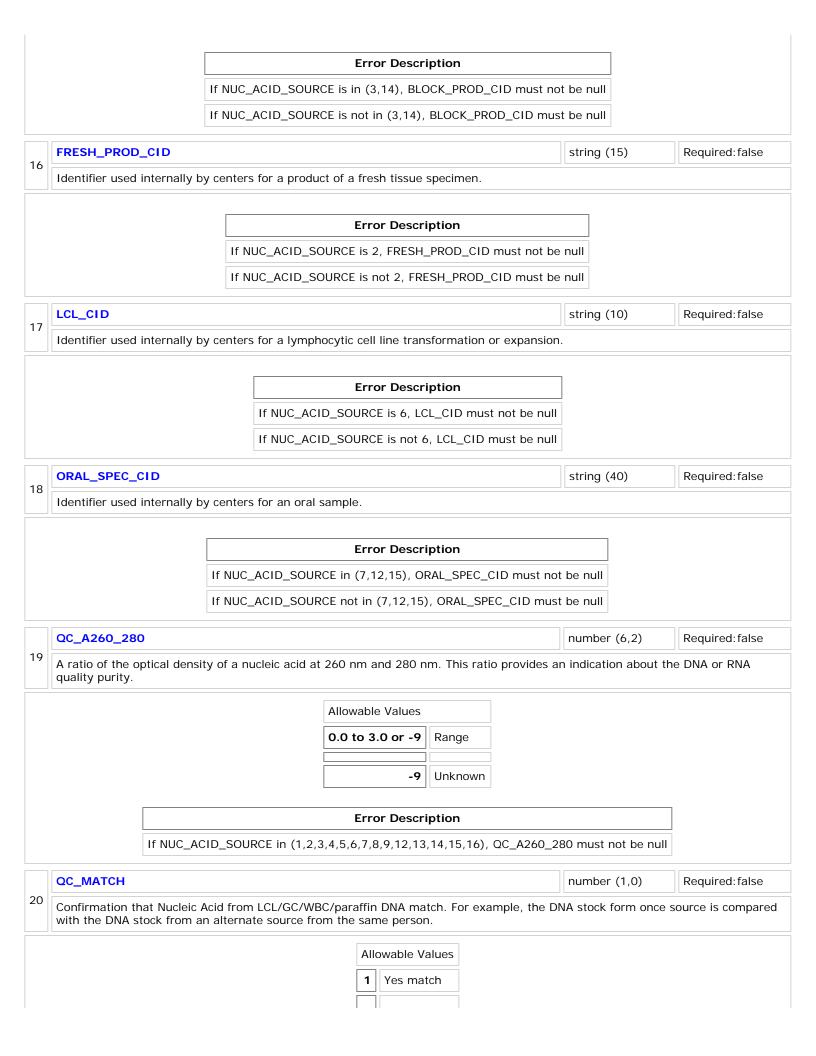| 1980	Minimum year

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

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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 (BCFR Only)
2	Frozen Tissue
3	Paraffin Block Section (Tubes or Slides)
4	Buffy Coat
5	White Blood Cells isolated using a Ficoll
6	Lymphoblastoid Cells
7	Buccal Smear (BCFR Only)
8	Whole Blood
9	Granulocytes
11	Blood Spots (guthrie)
12	Mouth Wash
13	Lymphocyte pellet
14 - Slide (BCFR Only)	
15	Saliva
16	Whole Genome amplified DNA
99	Unknown

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)

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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

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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
-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 form once source is compared with the DNA stock from an alternate source from the same person.		

Allowable Values	
1	Yes match

| | 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	Fluorescence (e.g., Picogreen, Qubit)
	2	Spectrophotometry (e.g., Nanodrop)
	4	Other (e.g., Trinean DropSense96, Bioanalyser, TapeStation)

Module: biospecimens

Module Contents

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	Sinai Health Systems (formerly Cancer Care Ontario)
12	Cedars-Sinai & Cleveland Clinic (formerly USC Consortium)
13	University of Melbourne
14	University of Hawaii Cancer Center
15	Mayo Clinic
16	Fred Hutch, Seattle
17	UCSF: University of California at San Franscisco (formerly CPIC, originally 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. 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		

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

	Allowable Values
11	Sinai Health Systems (formerly Cancer Care Ontario)
12	Cedars-Sinai & Cleveland Clinic (formerly USC Consortium)
13	University of Melbourne
14	University of Hawaii Cancer Center
15	Mayo Clinic
16	Fred Hutch, Seattle
17	UCSF: University of California at San Franscisco (formerly CPIC, originally 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.			

		Allowable Values	
		1	Yes
		2	No

11	**QC_SUMMARY**		number (1,0)	Required:false
	Summary result of QC procedures			

		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.			

		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.			

		Allowable Values	
		1	Yes
		2	No
		9	Not done