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# Technical Bulletin

## Revised Cellular Therapy Terminology

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# 1 Introduction

## 1.1 Purpose

The purpose of this document is to provide a cross reference to terminology used prior to August 2013 (version 4.25.0 and before) and that used after August 2013 (version 4.26.0 and after). This document is intended to provide users with information that will help them transition from the old terminology to the new and will not be updated as new cellular therapy terminology is added.

## 1.2 Scope

This document is a supplement to the *ISBT 128 Standard Terminology for Medical Products of Human Origin (ST-002)*. It provides information for cellular therapy facilities to assist them through the transition period between the old terminology and the new.

## 1.3 Intended Audience

The intended audience of this document is cellular therapy facility staff (collection, processing, and transplant centers), software developers, and label/software vendors.

## 1.4 Normative Reference

*ISBT 128 Standard Terminology for Medical Products of Human Origin (ST-002)*  
*ISBT 128 Standard Labeling of Cellular Therapy Products (ST-004)*

## 1.5 Other Reference

ICCBBA Website ([www.iccbba.org](http://www.iccbba.org))

*Implementation Guide: Use of Product Code [Data Structure 003] – Cellular Therapy (IG-022)*

## 1.6 Background

ISBT 128 terminology has been widely adopted by cellular therapy facilities globally and its use has been an accreditation requirement by AABB, FACT and JACIE for several years. Responding to regulator concern about the use of TC (“therapeutic cell”) terminology, the Cellular Therapy Coding and Labeling Advisory Group (CTCLAG) re-evaluated terminology. As a result of this review, terminology was revised to eliminate the “TC” class designation and to create a more consistent format for cellular therapy class terms. The revised terminology also takes into consideration consistency with nomenclature used for tissue products.

While accepting that changing terminology will create rework for facilities that have implemented ISBT 128 and delay for those in the process of implementation, it is felt the

revised terminology provides a strong foundation for consistent nomenclature as new products are developed and addresses regulatory concerns.

For class names that will change, not all nomenclature changes will result in a change to the ISBT 128 product description code (“S” code).

To understand the references to Product Description formulae in this document it is important to read Chapter 3 of *Implementation Guide: Use of Product Code Data Structure [003] – Cellular Therapy*.

## 1.7 Timeline

ICCBBA recommends facilities implement the new terminology as soon as practical. CTCLAG is currently evaluating the impact to software developers and organizations that are currently using ISBT 128. The outcome of this evaluation may provide information that will allow accreditation bodies to set more specific targets for implementation.

Retired codes are never removed from the database, so products labeled with a retired code may be read and interpreted indefinitely. Changes to Product Description Codes are backward compatible, which means that changes will not make old descriptions “wrong”.

## 2 Changed Class Names

Class names now follow the format “Cell Type, Source”. See examples in Table 1, New Class Name column.

### 2.1 Changes to Class Names: Old Names to New Names

The following table lists Class names that have been changed alphabetized by the name prior to August 2013.

**Table 1 Old to New Class Names**

Old Class Name	New Class Name
NC, ADIPOSE CELLS	NC, ADIPOSE TISSUE
NC, TUMOR CELLS	MALIGNANT CELLS,TUMOR
NC-MSC ATD	MSC, ADIPOSE TISSUE
NC-MSC DPD	MSC, DENTAL PULP
NC-MSC WJD	MSC, WHARTON'S JELLY
TC, APHERESIS	MNC, APHERESIS
TC, CORD BLOOD	NC, CORD BLOOD
TC, MARROW	NC, MARROW
TC, TUMOR DERIVED	See Retired Terms.
TC, WHOLE BLOOD	NC, WHOLE BLOOD
TC-APC	See Retired Terms
TC-BLINDED STUDY	INVESTIGATIONAL PRODUCT
TC-CTL	See New Terms. Depending on the source of the cells, use one of the following: T CELLS, APHERESIS (use the attribute “CTL Enriched”) T CELLS, CORD BLOOD (use the attribute “CTL Enriched”) T CELLS, MARROW (use the attribute “CTL Enriched”) T CELLS, WHOLE BLOOD (use the attribute “CTL Enriched”)

Old Class Name	New Class Name
TC-DC	<p>See New Terms. Depending on the source of the cells, use one of the following:</p> <p>DC, APHERESIS</p> <p>DC, CORD BLOOD</p> <p>DC, MARROW</p> <p>DC, WHOLE BLOOD</p>
TC-INV	INVESTIGATIONAL PRODUCT
TC-MSD	<p>See New Terms. Depending on the source of the cells, use one of the following:</p> <p>MSC, MARROW</p> <p>MSC, ADIPOSE TISSUE</p> <p>MSC, CORD BLOOD</p> <p>MSC, DENTAL PULP</p> <p>MSC, WHARTON'S JELLY</p>
TC-MSD MD	MSC, MARROW
TC-NK CELLS	<p>See New Terms. Depending on the source of the cells, use one of the following:</p> <p>NK CELLS, APHERESIS</p> <p>NK CELLS, CORD BLOOD</p> <p>NK CELLS, MARROW</p> <p>NK CELLS, WHOLE BLOOD</p>
TC-T CELLS	<p>See New Terms. Depending on the source of the cells, use one of the following:</p> <p>T CELLS, APHERESIS</p> <p>T CELLS, CORD BLOOD</p> <p>T CELLS, MARROW</p> <p>T CELLS, WHOLE BLOOD</p>

Old Class Name	New Class Name
TC-T REG CELLS	See New Terms. Depending on the source of the cells, use one of the following: T CELLS, APHERESIS (use attribute variable "T Reg Enriched") T CELLS, CORD BLOOD (use attribute variable "T Reg Enriched") T CELLS, MARROW (use attribute variable "T Reg Enriched") T CELLS, WHOLE BLOOD (use attribute variable "T Reg Enriched")
TC-TIL	T CELLS, TUMOR (use attribute variable "TIL Enriched")



## 2.2 Changes to Class Names: New Names to Old Names

The following table lists Class names that have been changed alphabetized by the name after August 2013.

**Table 2 New to Old Class Names**

New Class Name	Old Class Name
DC, APHERESIS	TC-DC
DC, CORD BLOOD	TC-DC
DC, MARROW	TC-DC
DC, WHOLE BLOOD	TC-DC
INVESTIGATIONAL PRODUCT	TC-BLINDED STUDY
	TC-INV
MALIGNANT CELLS,TUMOR	NC, TUMOR CELLS
MNC, APHERESIS	TC, APHERESIS
MSC, ADIPOSE TISSUE	NC-MSC ATD
	TC-MSC
MSC, CORD BLOOD	TC-MSC
MSC, DENTAL PULP	NC-MSC DPD
	TC-MSC
MSC, MARROW	TC-MSC
	TC-MSC MD
MSC, WHARTON'S JELLY	NC-MSC WJD
	TC-MSC
NC, ADIPOSE TISSUE	NC, ADIPOSE CELLS
NC, CORD BLOOD	TC, CORD BLOOD
NC, MARROW	TC, MARROW
NC, WHOLE BLOOD	TC, WHOLE BLOOD

New Class Name	Old Class Name
NK CELLS, APHERESIS	TC-NK CELLS
NK CELLS, CORD BLOOD	TC-NK CELLS
NK CELLS, MARROW	TC-NK CELLS
NK CELLS, WHOLE BLOOD	TC-NK CELLS
T CELLS, APHERESIS	TC-T CELLS
T CELLS, APHERESIS (with the attribute "CTL Enriched")	TC-CTL
T CELLS, APHERESIS (with attribute variable "T Reg Enriched")	TC-T REG CELLS
T CELLS, CORD BLOOD	TC-T CELLS
T CELLS, CORD BLOOD (with the attribute "CTL Enriched")	TC-CTL
T CELLS, CORD BLOOD (with attribute variable "T Reg Enriched")	TC-T REG CELLS
T CELLS, MARROW	TC-T CELLS
T CELLS, MARROW (with the attribute "CTL Enriched")	TC-CTL
T CELLS, MARROW (with attribute variable "T Reg Enriched")	TC-T REG CELLS
T CELLS, TUMOR (with attribute variable "TIL Enriched")	TC-TIL
T CELLS, WHOLE BLOOD	TC-T CELLS
T CELLS, WHOLE BLOOD (with the attribute "CTL Enriched")	TC-CTL
T CELLS, WHOLE BLOOD (with attribute variable "T Reg Enriched")	TC-T REG CELLS

## 2.3 Recoding Versus Retiring of Product Description Codes

When a one-to-one relationship existed between an old class name and a new class name (e.g., TC-MSC MD became MSC, Marrow) the existing product description codes did not change, but the description changed. For example:

	Product Description Code	Description
Old	S1703	TC-MSC MD None/XX/rt Cultured 3rd Party Comp:Yes Other Additives:Yes
Became:		
New	S1703	MSC, MARROW None/XX/rt 3rd Party Comp:Yes Other Additives:Yes  Cultured:Yes

In Table 1, any time there is only one Class name in the New Class Name column for a given old Class name, Product Description codes were retained and the descriptions were changed. Thus all Product Description codes with the Class NC, Adipose Cells were changed to NC, Adipose Tissue.

If there was not a one-to-one relationship between the old and new names (e.g., TC-T Cells could become either T Cells, Apheresis; T Cells, Cord Blood; T Cells, Marrow; or T Cells, Whole Blood) an automatic “translation” could not occur. These codes were therefore retired and new codes have been, or will be, created.

### 3 Changes to Definitions of Classes

Class definitions were changed to establish a common format for defining classes. This is shown in Table 3. “Mobilized” was removed from definitions of HPC, Apheresis and HPC, Whole Blood. “Non-mobilized” was removed from the definition of TC, Apheresis (now MNC, Apheresis). Mobilized and non-mobilized are now explicitly stated in Attributes.

**Table 3 Class Definitions, Old and New**

	Old Class Name	Old Definition	New Class Name (attributes used to create product equivalent to old name)	New Definition
1	HPC, APHERESIS	Peripheral blood collected by apheresis as a source of hematopoietic progenitor cells. Mobilized unless otherwise stated in the modifier.	HPC, APHERESIS	A cell product containing hematopoietic progenitor cells obtained by apheresis.
2	HPC, CORD BLOOD	Umbilical cord blood and/or placental blood collected as a source of hematopoietic progenitor cells.	HPC, CORD BLOOD	A cell product containing hematopoietic progenitor cells obtained from cord blood.
3	HPC, MARROW	Bone marrow collected as a source of hematopoietic progenitor cells.	HPC, MARROW	A cell product containing hematopoietic progenitor cells obtained from bone marrow.
4	HPC, WHOLE BLOOD	Whole blood collected as a source of hematopoietic progenitor cells. Mobilized unless otherwise stated in Modifier.	HPC, WHOLE BLOOD	A cell product containing hematopoietic progenitor cells obtained from whole blood.

	Old Class Name	Old Definition	New Class Name (attributes used to create product equivalent to old name)	New Definition
5	TC, APHERESIS	Source of nucleated cells obtained by an apheresis procedure. Non-mobilized unless otherwise stated in the modifier. The product is intended for therapeutic use other than as HPCs.	MNC, APHERESIS	A cell product containing monoclear cells obtained by apheresis.
6	TC, CORD BLOOD	Umbilical cord blood and/or placental blood collected as a source of nucleated cells. The product is intended for therapeutic use other than as HPCs.	NC, CORD BLOOD	A cell product containing nucleated cells obtained from cord blood.
7	TC, MARROW	Bone marrow collected as a source of nucleated cells. The product is intended for therapeutic use other than as HPCs.	NC, MARROW	A cell product containing nucleated cells obtained from bone marrow.
8	TC, WHOLE BLOOD	Whole blood collected as a source of nucleated cells. The product is intended for therapeutic use other than as HPCs.	NC, WHOLE BLOOD	A cell product containing nucleated cells obtained from whole blood.
9	TC-T CELLS	A cell product from any source containing a quantified T cell population. The product is intended for therapeutic use.	T CELLS, APHERESIS	A cell product containing T cells obtained by apheresis.
			T CELLS, MARROW	A cell product containing T cells obtained from bone marrow.
			T CELLS, CORD BLOOD	A cell product containing T cells obtained from cord blood.
			T CELLS, WHOLE BLOOD	A cell product containing T cells obtained from whole blood.

	Old Class Name	Old Definition	New Class Name (attributes used to create product equivalent to old name)	New Definition
			T CELLS, TUMOR	A cell product containing T cells obtained from a tumor.
10	TC-CTL	A cell product containing cytotoxic lymphocytes. The product is intended for therapeutic use.	<p>T CELLS, APHERESIS (use the attribute "CTL Enriched")</p> <p>T CELLS, CORD BLOOD (use the attribute "CTL Enriched")</p> <p>T CELLS, MARROW (use the attribute "CTL Enriched")</p> <p>T CELLS, WHOLE BLOOD (use the attribute "CTL Enriched")</p>	<p>See definitions for each class.</p> <p>The definition of the attribute CTL enriched is: Product in which the cytotoxic T lymphocytes have been enriched.</p>

	Old Class Name	Old Definition	New Class Name (attributes used to create product equivalent to old name)	New Definition
11	TC-T REG CELLS	A cell product containing T regulatory lymphocytes. The product is intended for therapeutic use.	<p>T CELLS, APHERESIS (use attribute variable "T Reg Enriched")</p> <p>T CELLS, CORD BLOOD (use attribute variable "T Reg Enriched")</p> <p>T CELLS, MARROW (use attribute variable "T Reg Enriched")</p> <p>T CELLS, WHOLE BLOOD (use attribute variable "T Reg Enriched")</p>	<p>See definitions for each class.</p> <p>The definition of the attribute T Reg Enriched is: Product in which the T regulatory lymphocytes have been enriched.</p>
12	TC-TIL	A cell product containing autologous tumor infiltrating lymphocytes (TIL) which have been isolated from the patient's tumor and cultured with lymphokines. The product is intended for therapeutic use.	T CELLS, TUMOR (use attribute variable "TIL Enriched")	<p>T CELLS, TUMOR: A cell product containing T cells obtained from a tumor.</p> <p>TIL Enriched: A product in which autologous tumor infiltrating lymphocytes (TIL) have been enriched from the patient's tumor and cultured.</p>
13	NC, TUMOR CELLS	Nucleated cells collected from a tumor intended for further processing (e.g., vaccine production).	MALIGNANT CELLS, TUMOR	A cell product containing malignant cells obtained from a tumor.

	Old Class Name	Old Definition	New Class Name (attributes used to create product equivalent to old name)	New Definition
14	TC-BLINDED STUDY	This class is reserved for use only in blinded studies of cells. The product is accompanied by appropriate identifying study information. Products labeled as TC-Blinded Study may include different doses or may include an active product and a placebo. The product is intended for therapeutic use.	INVESTIGATIONAL PRODUCT	A product for an investigational study that is accompanied by appropriate identifying study information. This class is used for a specific product that may be part of a blinded comparison study. Products labeled as Investigational Product may include different doses or may include an active product or a placebo.
15	TC-INV	<p>A cell product for an investigational study that is accompanied by appropriate identifying study information. The product is intended for therapeutic use.</p> <p>This class is used for a specific product, not a product that is part of a blinded comparison study. Throughout the study, products labeled as TC-INV will be the same product, although the dose may vary within a specified range defined by the study.</p>		
16	TC-NK CELLS	A cell product containing natural killer cells. The product is intended for therapeutic use.	NK CELLS, APHERESIS	A cell product containing natural killer cells obtained by apheresis.
			NK CELLS, MARROW	A cell product containing natural killer cells obtained from bone marrow.
			NK CELLS, CORD BLOOD	A cell product containing natural killer cells obtained from cord blood.



	Old Class Name	Old Definition	New Class Name (attributes used to create product equivalent to old name)	New Definition
			NK CELLS, WHOLE BLOOD	A cell product containing natural killer cells obtained from whole blood.
17	TC-DC	A cell product containing dendritic cells. The product is intended for therapeutic use.	DC, APHERESIS	A cell product containing dendritic cells obtained by apheresis.
			DC, CORD BLOOD	A cell product containing dendritic cells obtained from cord blood.
			DC, MARROW	A cell product containing dendritic cells obtained from bone marrow.
			DC, WHOLE BLOOD	A cell product containing dendritic cells obtained from whole blood.
18	TC-MSC MD	A cell product containing mesenchymal stromal cells derived from the bone marrow. The product is intended for therapeutic use.	MSC, MARROW	A cell product containing mesenchymal stromal cells derived from bone marrow.
19	NC-MSC ATD	A nucleated cell product containing mesenchymal stromal cells derived from adipose tissue with undefined therapeutic use at the time of collection.	MSC, ADIPOSE TISSUE	A cell product containing mesenchymal stromal cells derived from adipose tissue
20	NC-MSC DPD	A nucleated cell product containing mesenchymal stromal cells derived from dental pulp with undefined therapeutic use at the time of collection.	MSC, DENTAL PULP	A cell product containing mesenchymal stromal cells derived from dental pulp.

	Old Class Name	Old Definition	New Class Name (attributes used to create product equivalent to old name)	New Definition
21	NC-MSD WJD	A nucleated cell product containing mesenchymal stromal cells derived from Wharton's jelly with undefined therapeutic use at the time of collection.	MSC, WHARTON'S JELLY	A cell product containing mesenchymal stromal cells derived from Wharton's jelly.
22	NC, MENSTRUAL BLOOD	Source of nucleated cells collected from menstrual blood, with undefined therapeutic use at the time of collection.	NC, MENSTRUAL BLOOD	A cell product containing nucleated cells obtained from menstrual blood.
23	NC, ADIPOSE CELLS	Nucleated cells collected from adipose tissue, with undefined therapeutic use at the time of collection.	NC, ADIPOSE TISSUE	A cell product containing nucleated cells obtained from adipose tissue.

## 4 Modifiers Converted to Attributes

CTCLAG made the decision to eliminate the concept of modifiers for cellular therapy terminology. Information previously encoded as a modifier is now encoded as an attribute. No information was lost and the descriptions and formulae for Product Description Codes were updated to reflect the change from modifier to attribute. For example:

	Code	Description	Formula
Old	S1194	Cryopreserved HPC, APHERESIS NS/XX/<=-120C 10% DMSO	S006S@37SG3
Became:			
New	S1194	HPC, APHERESIS NS/XX/<=-120C 10% DMSO Cryopreserved Mobilized	S005S@37SG3SL5SM2

In this example, Cryopreserved HPC, APHERESIS had the Class code S006 in the formula that reflected the combination Cryopreserved and HPC, APHERESIS. The class code for HPC, APHERESIS is S005. Therefore, the Class code changed from S006 to S005, and the attribute code for Cryopreserved (SL5) was added to the formula. See Implementation Guide: Use of Product Code Data Structure [003] – Cellular Therapy for more details on how the formula is created.

Actual terms were not changed; they were simply moved from being a modifier to being an attribute. Table 4 lists these changes.

In the situation of a previously retired class, POOLED HPC, APHERESIS (Class code S022), POOLED was part of the class name. This class was defined as: Pool of multiple HPC Apheresis collections from the same donor. Therefore, product descriptions with this class were converted to HPC, APHERESIS with the attribute Pooled Single Donor:Yes.

**Table 4 Modifier to Attribute Crosswalk**

Previous Modifier	New Attribute Group(s)	New Attribute Variable(s)
Cryopreserved	Modification	Cryopreserved
Cryopreserved Non-mobilized	<ul style="list-style-type: none"> <li>• Modification</li> <li>• Mobilization</li> </ul>	<ul style="list-style-type: none"> <li>• Cryopreserved</li> <li>• Non-mobilized</li> </ul>
Mobilized	Mobilization	Mobilized
Non-Mobilized	Mobilization	Non-mobilized
Pooled, Single Donor Cryopreserved	<ul style="list-style-type: none"> <li>• Pooled Single Donor</li> <li>• Modification</li> </ul>	<ul style="list-style-type: none"> <li>• Pooled Single Donor:Yes</li> <li>• Cryopreserved</li> </ul>
Pooled, Single Donor	Pooled Single Donor	Pooled Single Donor: Yes
Pooled, Single Donor Thawed Washed	<ul style="list-style-type: none"> <li>• Pooled Single Donor</li> <li>• Modification</li> </ul>	<ul style="list-style-type: none"> <li>• Pooled Single Donor: Yes</li> <li>• Thawed Washed</li> </ul>
Thawed	Modification	Thawed
Thawed Washed	Modification	Thawed Washed
Thawed Washed Non-Mobilized	<ul style="list-style-type: none"> <li>• Modification</li> <li>• Mobilization</li> </ul>	<ul style="list-style-type: none"> <li>• Thawed Washed</li> <li>• Non-mobilized</li> </ul>
Washed	Modification	Washed

## 5 New Attributes to Support Elimination of Modifiers

New attributes were created to encode information that had previously been in modifiers or because CTCLAG determined they were needed to describe new products.

The tables in this section list the new attribute groups that were created as well as variables within those groups.

### 5.1 Attribute Groups

Term	Definition
Manipulation (existing group with new attributes added)	Describes processing applied to a product other than to enrich or reduce a cell population.
Modification	Processing that changes the cellular milieu and maintains the integrity of the target cell population.
Mobilization	Indicates whether or not an agent was administered to the donor/patient to increase the yield of target cells collected.
Pooled Single Donor	Indicates whether or not the product is a combination of multiple collections of the same product type from the same donor or aliquots of the same collection.

### 5.2 Attribute Variables

#### 5.2.1 Group: Manipulation

New attributes were added to an existing group. They are:

Term	Definition
Pulsed	The loading of antigens (such as peptides, tumor antigens, etc.) on dendritic cells to increase the specificity of the immunotherapy.
Electroporated	The use of an electric field to increase the permeability of the cell plasma membrane to introduce some substances (such as mRNA, drugs etc.).
Lysed	The use of a process to disrupt the cell membranes (such as freezing cells without cryoprotectant etc).

### 5.2.2 Group: Modification

These terms were previously modifiers.

Term	Definition
Default: Not specified	No information about processing is specified in this Attribute group.
Thawed	Applies to cryopreserved cells that have been thawed without washing prior to final issue for administration.
Washed	Applies to cells from a non-cryopreserved product that has been washed to reduce the amount of plasma, anticoagulant, and/or other solution(s).
Thawed Washed	Applies to cryopreserved cells that have been thawed and subsequently washed to remove cryoprotectant or other solution(s).
Cryopreserved	Applies to cells in the frozen state after the addition of cryoprotectant(s).

### 5.2.3 Group: Mobilization

In the past, the concept of mobilization was included in some class definitions. For example, the definitions of HPC, Apheresis and HPC, Whole Blood included the phrase “mobilized unless otherwise specified.” Likewise, the definition of TC, Apheresis included the fact it was non-mobilized unless otherwise specified. The modifiers Mobilized and Non-Mobilized were used only if the “standard” conditions did not apply. Mobilization is no longer assumed in definitions and will always be used when it applies. The term mobilized was part of the definition for HPC Apheresis and HPC, Whole Blood. All existing product descriptions for HPC, Apheresis and HPC, Whole Blood were updated to include “Mobilized”. The term non-mobilized was in the definition of TC, Apheresis (now MNC, Apheresis). All exiting product descriptions for MNC, Apheresis now included the attribute “Non-Mobilized”.

For example:

	Code	Description	Formula
Old	S1194	Cryopreserved HPC, APHERESIS NS/XX/<=-120C 10% DMSO	S006S@37SG3
<b>Became:</b>			
New	S1194	HPC, APHERESIS NS/XX/<=-120C 10% DMSO Cryopreserved Mobilized	S005S@37SG3SL5SM2

New attributes and definitions:

Term	Definition
Default: Not specified	Mobilization is not specified in the coding.
Mobilized	Applies to cells that have been obtained from a donor treated with an agent to increase the concentration of the target cell population(s)
Non-mobilized	Applies to cells that have been obtained from a donor not treated with an agent to increase the concentration of the target cell population(s).

#### 5.2.4 Group: Pooled Single Donor

Pooled Single Donor was previously a modifier.

Term	Definition
Default: Not specified	Information about product pooling is not specified in the coding.
Pooled Single Donor: Yes	Product is a combination of multiple collections of the same product type from the same donor or aliquots from the same collection.

## 6 Attributes Moved or Retired from the Manipulation Group

When the format for cellular therapy classes became “Cell Type, Source”, coding some classes required moving information from the class name into an attribute. For example, for TC-TIL the new Class is T CELLS, Tumor and the TIL is captured in the attribute TIL Enriched. This created the need for new attributes in the Manipulation Group. This added to the number of attributes in this group to the point there were so many attribute variables the group had to be split into four groups: Manipulation, Cultured, Enrichment, and Reduction.

Because the listing of attributes within a product description is in the order in which they appear in the database, and each new group is added to the end of the list, the order in which the attributes appears changed. Variables for Cultured, Enriched, and Reduction moved to the end of the product description. Formulas also changed. For example:

	Code	Description	Formula
Old	S1550	Thawed HPC, MARROW Citrate+Heparin/XX/ref g buffy coat enriched 10% DMSO 3rd Party Comp:Yes	S003S@32SEASG3SH2
Became:			
New	S1550	HPC, MARROW Citrate+Heparin/XX/ref g  10% DMSO 3rd Party Comp:Yes  Thawed buffy coat enriched	S001S@32SG3SH2SL2S P2

It is important to note that no information has been lost; information has simply been moved according to the rules for ISBT 128 coding of products. It is also important to note that the order attributes appear on a product label can be determined nationally and does not need to follow the order in the database.

New attribute groups are:

Term	Definition
Cultured	Indicates whether or not cells have been maintained ex vivo to activate, expand, or promote development of a specified cell population in the presence of specified additives.
Manipulation, Enrichment	Indicates whether a product has been processed to enrich a cell population.
Manipulation, Reduction	Indicates whether a product has been processed to reduce a cell population or plasma.



## 6.1 Group: Cultured

Cultured used to be in the Manipulation group. Because cultured is not mutually exclusive with other terms within the Manipulation group, it was moved to its own group.

Term	Definition
Default: No	Product was not cultured.
Cultured: Yes	Cells that have been maintained ex vivo to activate, expand, or promote development of a specified cell population in the presence of specified additive(s).

## 6.2 Group: Manipulation, Enrichment

Because the current database design allows only 35 attributes, and the Manipulation group had grown to 34 attributes, the group was split into three groups: Manipulation, Enrichment, and Reduction.

Term	Definition
Default: Not Specified	No information about cell enrichment is specified in the coding.
Buffy coat enriched	Product in which nucleated cells have been enriched. Includes reduction of mature erythrocytes and plasma.
CD4 enriched	Product in which the CD4 cells have been enriched.
CD34 enriched	Product in which the CD34 cells have been enriched.
CD56 enriched	Product in which the CD56 cells have been enriched.
CD133 enriched	Product in which the CD133 cells have been enriched.
Mononuclear cell enriched	Product in which the mononuclear cells have been enriched..
T Reg enriched	Product in which the T regulatory lymphocytes have been enriched.
CTL enriched	Product in which the cytotoxic T lymphocytes have been enriched.
TIL enriched	Product in which autologous tumor infiltrating lymphocytes (TIL) have been enriched from the patient's tumor and cultured.
Monocyte enriched	Product in which the monocytes have been enriched.

## 6.3 Group: Manipulation, Reduction

As the case with the Enrichment group, the Reduction group was created by splitting the Manipulation group which had grown too large.

Term	Definition
Default: Not specified	No information about cell or plasma reduction is specified in the coding.
Alpha Beta T cell reduced	The cells remaining after the Alpha Beta T cells have been reduced.
Alpha Beta T/B cell reduced	The cells remaining after the Alpha Beta T cells and B cells have been reduced.
B cell reduced	The cells remaining after B cells have been reduced.
CD8 reduced	The cells remaining after the CD8 cells have been reduced.
Plasma reduced	The cells remaining after a portion of the plasma has been depleted by sedimentation or centrifugation.
RBC reduced	The cells remaining after reduction of mature erythrocytes.
T/B cell reduced	The cells remaining after T cells and B cells have been reduced.
T cell reduced	The cells remaining after T cells have been reduced.
Tumor cell reduced	The cells remaining after tumor cells have been reduced.

## 6.4 Diluted

In the past, it was possible to code a product which was diluted with concurrent plasma in two ways. It could either be given the attribute “Diluted” from the Manipulation group, or it could be given the attribute “Other Additives: Yes” from the Other Additives group. CTCLAG decided to eliminate the attribute “Diluted” to eliminate this redundancy in coding. In the new terminology, if Concurrent Plasma or another additive that is not from a third party donor is used to dilute a product, it is coded “Other Additives: Yes”.

### 6.4.1 Codes with “Diluted” and not “Other Additives:Yes”

If a Product Description code had the attribute “diluted” and did not already have the attribute “Other Additives: Yes”, it was recoded so that “diluted” was omitted and “Other Additives: Yes” was added.

For example,

	Code	Description	Formula
Old	S1487	HPC, APHERESIS Citrate+Heparin/XX/ref g Diluted	S059S@24SEPSH2 SI2
Became:			
New	S1487	HPC, APHERESIS Citrate+Heparin/XX/rt D iluted 10% DMSO 3rd Party Comp:Yes Other Additives:Yes Thawed Mobilized	S005S@24SEPSH2 SI2SL4SM2

### 6.4.2 Codes with both “Diluted” and “Other Additives: Yes”

If a code had the attribute “diluted” and already had the attribute “Other Additives: Yes”, it was recoded so that “diluted” was omitted.

For example:

	Code	Description	Formula
Old	S1767	Thawed Washed HPC, APHERESIS NS/XX/rt Diluted 3rd Party Comp:Yes Other Additives:Yes	S005S@28SEP
Became:			
New	S1467	HPC, APHERESIS NS/XX/rt 3rd Party Comp:Yes Other Additives:Yes Thawed Washed Mobilized	S005S@28S12SM2

### 6.4.3 Duplicate codes

If taking one of the above actions resulted in a duplicate of an existing code, the code with “diluted” was retired.

For example:

Old codes:

S1927 = HPC, APHERESIS|Citrate/XX/rt|Diluted|Other Additives:Yes

S1135 = HPC, APHERESIS|Citrate/XX/rt|Other Additives:Yes

If S1927 would be recoded as HPC, APHERESIS|Citrate/XX/rt|Other Additives:Yes, following the rule in 6.4.2, it would be an exact duplicate of S1135. Therefore S1927 was retired.

### 6.4.4 Specifically encoding concurrent plasma

Additionally, it is now possible to specifically encode the presence of concurrent plasma. CTCLAG created new codes to replace those that contained the attribute “diluted” to indicate concurrent plasma was the diluent.

To support this, new attributes were added to the Other Additive group. They are:

Term	Definition
Concurrent Plasma	Concurrently collected plasma present.
Concurrent plasma + other	Concurrently collected plasma present as well as other additives (see accompanying documentation).

Therefore, additional options exist beyond the codes listed in 6.4.1 and 6.4.2. If the attribute “diluted” was present without Other Additives:Yes in a product description, a new code was created with “Concurrent Plasma” replacing “diluted”. If both “diluted” and “Other Additives: Yes” were present, a new code was created with “Concurrent plasma + other” replacing “diluted” and “Other additives: Yes”.

Table 5 may be used to select a new code based on the code that was previously used.

**Table 5 Crosswalk for HPC and MNC, APHERESIS Codes with the Previous Attribute “Diluted”**

Old Code	Old Description (Database Version 4.25 or before)	Choices for Replacement Code	Descriptions (Database Version 4.26 or later)
S1442	HPC, APHERESIS Citrate/XX/refg Diluted	S1134	HPC, APHERESIS Citrate/XX/refg Other Additives:Yes Mobilized
		S2005	HPC, APHERESIS Citrate/XX/refg  Concurrent plasma Mobilized
S1447	Cryopreserved HPC, APHERESIS Citrate/XX/<=-150C Diluted 10% DMSO 3rd Party Comp:Yes	S1482	HPC, APHERESIS Citrate/XX/<=-150C 10% DMSO 3rd Party Comp:Yes Other Additives:Yes Cryopreserved Mobilized
		S1985	HPC, APHERESIS Citrate/XX/<=-150C 10% DMSO 3rd Party Comp:Yes Concurrent plasma Cryopreserved Mobilized
S1451	Thawed HPC, APHERESIS Citrate/XX/refg Diluted 10% DMSO 3rd Party Comp:Yes Other Additives:Yes	S1384	HPC, APHERESIS Citrate/XX/refg 10% DMSO 3rd Party Comp:Yes Other Additives:Yes Thawed Mobilized
		S1986	HPC, APHERESIS Citrate/XX/refg 10% DMSO 3rd Party Comp:Yes  Concurrent plasma + other Thawed Mobilized
S1455	Pooled, Single Donor Thawed Washed HPC, APHERESIS None/XX/refg Diluted 3rd Party Comp:Yes	S1454	HPC, APHERESIS None/XX/refg 3rd Party Comp:Yes Other Additives:Yes Thawed Washed Mobilized Pooled Single Donor:Yes
		S1987	HPC, APHERESIS None/XX/refg 3rd Party Comp:Yes Concurrent plasma Thawed Washed Mobilized Pooled Single Donor:Yes

Old Code	Old Description (Database Version 4.25 or before)	Choices for Replacement Code	Descriptions (Database Version 4.26 or later)
S1467	HPC, APHERESIS Heparin/XX/refg Diluted	S1467	HPC, APHERESIS Heparin/XX/refg Other Additives:Yes Mobilized
		S1988	HPC, APHERESIS Heparin/XX/refg Concurrent plasma Mobilized
S1485	Cryopreserved TC, APHERESIS Citrate/XX/<=-150C Diluted 10% DMSO 3rd Party Comp:Yes Other Additives:Yes	S1483	MNC, APHERESIS Citrate/XX/<=-150C 10% DMSO 3rd Party Comp:Yes Other Additives:Yes Cryopreserved Non-mobilized
		S1989	MNC, APHERESIS Citrate/XX/<=-150C 10% DMSO 3rd Party Comp:Yes Concurrent plasma + other Cryopreserved Non-mobilized
S1487	HPC, APHERESIS Citrate+Heparin/XX/refg Diluted	S1487	HPC, APHERESIS Citrate+Heparin/XX/refg Other Additives:Yes Mobilized
		S1990	HPC, APHERESIS Citrate+Heparin/XX/refg Concurrent plasma Mobilized
S1585	Thawed HPC, CORD BLOOD NS/XX/refg Diluted NS DMSO Other Additives:Yes	S1706	HPC, CORD BLOOD NS/XX/refg NS DMSO Other Additives:Yes Thawed
S1599	TC, APHERESIS Citrate/XX/refg Diluted	S1599	MNC, APHERESIS Citrate/XX/refg Other Additives:Yes Non-mobilized
		S1992	MNC, APHERESIS Citrate/XX/refg Concurrent plasma Non-mobilized
S1600	TC, APHERESIS Citrate+Heparin/XX/refg Diluted	S1600	MNC, APHERESIS Citrate+Heparin/XX/refg Other Additives:Yes Non-mobilized
		S1993	MNC, APHERESIS Citrate+Heparin/XX/refg Concurrent plasma Non-mobilized

Old Code	Old Description (Database Version 4.25 or before)	Choices for Replacement Code	Descriptions (Database Version 4.26 or later)
S1758	Thawed HPC, APHERESIS Citrate+Heparin/XX/refg Diluted 10% DMSO 3rd Party Comp:Yes Other Additives:Yes	S1760	HPC, APHERESIS Citrate+Heparin/XX/refg 10% DMSO 3rd Party Comp:Yes Other Additives:Yes Thawed Mobilized
		S1994	HPC, APHERESIS Citrate+Heparin/XX/refg 10% DMSO 3rd Party Comp:Yes Concurrent plasma + other Thawed Mobilized
S1761	Thawed Washed HPC, APHERESIS NS/XX/refg Diluted 3rd Party Comp:Yes Other Additives:Yes	S1761	HPC, APHERESIS NS/XX/refg 3rd Party Comp:Yes Other Additives:Yes Thawed Washed Mobilized
		S1995	HPC, APHERESIS NS/XX/refg 3rd Party Comp:Yes Concurrent plasma + other Thawed Washed Mobilized
S1763	Thawed HPC, APHERESIS Citrate+Heparin/XX/rt Diluted 10% DMSO 3rd Party Comp:Yes Other Additives:Yes	S1765	HPC, APHERESIS Citrate+Heparin/XX/rt 10% DMSO 3rd Party Comp:Yes Other Additives:Yes Thawed Mobilized
		S1996	HPC, APHERESIS Citrate+Heparin/XX/rt 10% DMSO 3rd Party Comp:Yes Concurrent plasma + other Thawed Mobilized
S1767	Thawed Washed HPC, APHERESIS NS/XX/rt Diluted 3rd Party Comp:Yes Other Additives:Yes	S1767	HPC, APHERESIS NS/XX/rt 3rd Party Comp:Yes Other Additives:Yes Thawed Washed Mobilized
		S1997	HPC, APHERESIS NS/XX/rt 3rd Party Comp:Yes Concurrent plasma + other Thawed Washed Mobilized
S1847	Thawed HPC, CORD BLOOD NS/XX/refg Diluted	S1847	HPC, CORD BLOOD NS/XX/refg Other Additives:Yes Thawed

Old Code	Old Description (Database Version 4.25 or before)	Choices for Replacement Code	Descriptions (Database Version 4.26 or later)
S1848	Thawed TC, APHERESIS NS/XX/refg Diluted	S1848	MNC, APHERESIS NS/XX/refg Other Additives:Yes Thawed Non-mobilized
		S1999	MNC, APHERESIS NS/XX/refg Concurrent plasma Thawed Non-mobilized
S1849	Thawed HPC, MARROW NS/XX/refg Diluted	S1849	HPC, MARROW NS/XX/refg Other Additives:Yes Thawed
S1850	Thawed HPC, APHERESIS NS/XX/refg Diluted	S1850	HPC, APHERESIS NS/XX/refg Other Additives:Yes Thawed Mobilized
		S2001	HPC, APHERESIS NS/XX/refg Concurrent plasma Thawed Mobilized
S1926	Cryopreserved HPC, APHERESIS Citrate/XX/<=-150C Diluted 10% DMSO 3rd Party Comp:Yes Other Additives:Yes	S1482	HPC, APHERESIS Citrate/XX/<=-150C 10% DMSO 3rd Party Comp:Yes Other Additives:Yes Cryopreserved Mobilized
		S2002	HPC, APHERESIS Citrate/XX/<=-150C 10% DMSO 3rd Party Comp:Yes Concurrent plasma + other Cryopreserved Mobilized
S1927	HPC, APHERESIS Citrate/XX/rt Diluted Other Additives:Yes	S1135	HPC, APHERESIS Citrate/XX/rt Other Additives:Yes Mobilized
		S2003	HPC, APHERESIS Citrate/XX/rt Concurrent plasma + other Mobilized
S1949	Thawed Washed HPC, CORD BLOOD NS/XX/refg Diluted 3rd Party Comp:Yes Other Additives:Yes	S1575	HPC, CORD BLOOD NS/XX/refg 3rd Party Comp:Yes Other Additives:Yes Thawed Washed



## 7 Replacements for TC-T Cells Product Description Codes

Many products exist in inventories around the world with the class TC-T Cells. The source of products (apheresis, cord blood, marrow, or whole blood) of TC-T Cells in inventories will vary. Therefore, no general rule could be created for re-coding product descriptions with this Class and all TC-T Cells product description codes were retired. The new names for products previously called TC-T Cells are:

- T Cells, Apheresis
- T Cells, Cord Blood
- T Cells, Marrow
- T Cells, Whole Blood

Because there were so many codes that needed replacement, ICCBBA created new codes proactively for more common whole blood and apheresis products. These codes are listed on Table 6. Users may select the appropriate new product description codes to replace their old product description codes based on this table.

Users will need to request replacement codes for other products previously called TC-T Cells, as well as for other retired codes. Instructions for requesting new product codes are found in the document, Implementation Guide: Use of the Product Code [Data Structure 003] – Cellular Therapy (IG-022). There is an on-line request form in the Cellular Therapy subject area of the ICCBBA Website.

**Table 6 Crosswalk for TC-T Product Description Codes**

OLD CODE	Old DESCRIPTION	NEW CODE CHOICES	NEW DESCRIPTION
S1188	Thawed TC-T CELLS Citrate/XX/rt	S2006	T CELLS, APHERESIS Citrate/XX/rt Thawed
S1212	Cryopreserved TC-T CELLS NS/XX/<=-120C buffy coat enriched 10% DMSO	S2008	T CELLS, WHOLE BLOOD NS/XX/<=-120C 10% DMSO Cryopreserved Buffy coat enriched
S1213	Cryopreserved TC-T CELLS NS/XX/<=-120C buffy coat enriched 5% DMSO	S2010	T CELLS, WHOLE BLOOD NS/XX/<=-120C 5% DMSO Cryopreserved Buffy coat enriched
S1214	Cryopreserved TC-T CELLS NS/XX/<=-120C buffy coat enriched 10% DMSO 3rd Party Comp:Yes	S2012	T CELLS, WHOLE BLOOD NS/XX/<=-120C 10% DMSO 3rd Party Comp:Yes Cryopreserved Buffy coat enriched
S1215	Cryopreserved TC-T CELLS NS/XX/<=-120C buffy coat enriched 5% DMSO 3rd Party Comp:Yes	S2014	T CELLS, WHOLE BLOOD NS/XX/<=-120C 5% DMSO 3rd Party Comp:Yes Cryopreserved Buffy coat enriched
S1216	Cryopreserved TC-T CELLS NS/XX/<=-120C 5% DMSO 3rd Party Comp:Yes	S2015	T CELLS, APHERESIS NS/XX/<=-120C 5% DMSO 3rd Party Comp:Yes Cryopreserved
		S2016	T CELLS, WHOLE BLOOD NS/XX/<=-120C 5% DMSO 3rd Party Comp:Yes Cryopreserved
S1217	TC-T CELLS NS/XX/rt buffy coat enriched	S2018	T CELLS, WHOLE BLOOD NS/XX/rt Buffy coat enriched
S1218	TC-T CELLS NS/XX/rt buffy coat enriched 3rd Party Comp:Yes	S2020	T CELLS, WHOLE BLOOD NS/XX/rt 3rd Party Comp:Yes Buffy coat enriched
S1219	Cryopreserved TC-T CELLS NS/XX/<=-120C 10% DMSO	S2021	T CELLS, APHERESIS NS/XX/<=-120C 10% DMSO Cryopreserved
		S2022	T CELLS, WHOLE BLOOD NS/XX/<=-120C 10% DMSO Cryopreserved

OLD CODE	Old DESCRIPTION	NEW CODE CHOICES	NEW DESCRIPTION
S1220	Cryopreserved TC-T CELLS NS/XX/<=-120C 5% DMSO	S2023	T CELLS, APHERESIS NS/XX/<=-120C 5% DMSO Cryopreserved
		S2024	T CELLS, WHOLE BLOOD NS/XX/<=-120C 5% DMSO Cryopreserved
S1221	Cryopreserved TC-T CELLS NS/XX/<=-120C 10% DMSO 3rd Party Comp:Yes	S2025	T CELLS, APHERESIS NS/XX/<=-120C 10% DMSO 3rd Party Comp:Yes Cryopreserved
		S2026	T CELLS, WHOLE BLOOD NS/XX/<=-120C 10% DMSO 3rd Party Comp:Yes Cryopreserved
S1222	TC-T CELLS Citrate/XX/refg 3rd Party Comp:Yes	S2027	T CELLS, APHERESIS Citrate/XX/refg 3rd Party Comp:Yes
S1223	TC-T CELLS Citrate/XX/rt 3rd Party Comp:Yes	S2028	T CELLS, APHERESIS Citrate/XX/rt 3rd Party Comp:Yes
S1227	TC-T CELLS Citrate/XX/refg	S2029	T CELLS, APHERESIS Citrate/XX/refg
S1228	TC-T CELLS Citrate/XX/rt	S2030	T CELLS, APHERESIS Citrate/XX/rt
S1263	Thawed Washed TC-T CELLS NS/XX/rt	S2031	T CELLS, APHERESIS NS/XX/rt Thawed Washed
		S2032	T CELLS, WHOLE BLOOD NS/XX/rt Thawed Washed
S1264	Thawed Washed TC-T CELLS NS/XX/rt 3rd Party Comp:Yes	S2033	T CELLS, APHERESIS NS/XX/rt 3rd Party Comp:Yes Thawed Washed
		S2034	T CELLS, WHOLE BLOOD NS/XX/rt 3rd Party Comp:Yes Thawed Washed
S1265	Thawed Washed TC-T CELLS NS/XX/rt buffy coat enriched	S2036	T CELLS, WHOLE BLOOD NS/XX/rt Thawed Washed Buffy coat enriched

OLD CODE	Old DESCRIPTION	NEW CODE CHOICES	NEW DESCRIPTION
S1266	Thawed Washed TC-T CELLS NS/XX/rt buffy coat enriched 3rd Party Comp:Yes	S2038	T CELLS, WHOLE BLOOD NS/XX/rt 3rd Party Comp:Yes Thawed Washed Buffy coat enriched
S1279	Cryopreserved TC-T CELLS Citrate/XX/<=-120C 10% DMSO Other Additives:Yes	S2039	T CELLS, APHERESIS Citrate/XX/<=-120C 10% DMSO Other Additives:Yes Cryopreserved
S1291	Thawed TC-T CELLS None/XX/refg Mononuclear cells enriched Other Additives:Yes	S2042	T CELLS, WHOLE BLOOD None/XX/refg Other Additives:Yes Thawed Mononuclear cell enriched
S1299	TC-T CELLS None/XX/rt Mononuclear cells enriched Other Additives:Yes	S2044	T CELLS, WHOLE BLOOD None/XX/rt Other Additives:Yes Mononuclear cell enriched
S1300	Cryopreserved TC-T CELLS None/XX/<=-150C 10% DMSO Other Additives:Yes	S2045	T CELLS, APHERESIS None/XX/<=-150C 10% DMSO Other Additives:Yes Cryopreserved
		S2046	T CELLS, WHOLE BLOOD None/XX/<=-150C 10% DMSO Other Additives:Yes Cryopreserved
S1301	Cryopreserved TC-T CELLS None/XX/<=-150C Mononuclear cells enriched 10% DMSO Other Additives:Yes	S2048	T CELLS, WHOLE BLOOD None/XX/<=-150C 10% DMSO Other Additives:Yes Cryopreserved Mononuclear cell enriched
S1302	Thawed TC-T CELLS None/XX/refg Other Additives:Yes	S2049	T CELLS, APHERESIS None/XX/refg Other Additives:Yes Thawed
		S2050	T CELLS, WHOLE BLOOD None/XX/refg Other Additives:Yes Thawed
S1320	TC-T CELLS None/XX/refg 3rd Party Comp:Yes	S2051	T CELLS, APHERESIS None/XX/refg 3rd Party Comp:Yes
		S2052	T CELLS, WHOLE BLOOD None/XX/refg 3rd Party Comp:Yes
S1321	Cryopreserved TC-T CELLS Citrate/XX/<=-150C 10% DMSO	S2053	T CELLS, APHERESIS Citrate/XX/<=-150C 10% DMSO Cryopreserved

OLD CODE	Old DESCRIPTION	NEW CODE CHOICES	NEW DESCRIPTION
S1322	Cryopreserved TC-T CELLS Citrate+Heparin/XX/<=-150C 10% DMSO	S2054	T CELLS, APHERESIS Citrate+Heparin/XX/<=-150C 10% DMSO Cryopreserved
		S2055	T CELLS, WHOLE BLOOD Citrate+Heparin/XX/<=-150C 10% DMSO Cryopreserved
S1323	Cryopreserved TC-T CELLS None/XX/<=-150C 10% DMSO	S2056	T CELLS, APHERESIS None/XX/<=-150C 10% DMSO Cryopreserved
		S2057	T CELLS, WHOLE BLOOD None/XX/<=-150C 10% DMSO Cryopreserved
S1324	Thawed TC-T CELLS Citrate/XX/refg 10% DMSO 3rd Party Comp:Yes	S2058	T CELLS, APHERESIS Citrate/XX/refg 10% DMSO 3rd Party Comp:Yes Thawed
S1325	Thawed TC-T CELLS Citrate+Heparin/XX/refg 10% DMSO 3rd Party Comp:Yes	S2059	T CELLS, APHERESIS Citrate+Heparin/XX/refg 10% DMSO 3rd Party Comp:Yes Thawed
		S2060	T CELLS, WHOLE BLOOD Citrate+Heparin/XX/refg 10% DMSO 3rd Party Comp:Yes Thawed
S1326	Thawed TC-T CELLS None/XX/refg 10% DMSO 3rd Party Comp:Yes	S2061	T CELLS, APHERESIS None/XX/refg 10% DMSO 3rd Party Comp:Yes Thawed
		S2062	T CELLS, WHOLE BLOOD None/XX/refg 10% DMSO 3rd Party Comp:Yes Thawed
S1330	TC-T CELLS Citrate/XX/rt Other Additives:Yes	S2063	T CELLS, APHERESIS Citrate/XX/rt Other Additives:Yes
S1350	TC-T CELLS NS/XX/rt Plasma reduced	S2064	T CELLS, APHERESIS NS/XX/rt Plasma reduced

OLD CODE	Old DESCRIPTION	NEW CODE CHOICES	NEW DESCRIPTION
		S2065	T CELLS, WHOLE BLOOD NS/XX/rt Plasma reduced
S1351	TC-T CELLS NS/XX/rt Plasma reduced 3rd Party Comp:Yes	S2066	T CELLS, APHERESIS NS/XX/rt 3rd Party Comp:Yes Plasma reduced
		S2067	T CELLS, WHOLE BLOOD NS/XX/rt 3rd Party Comp:Yes Plasma reduced
S1352	Cryopreserved TC-T CELLS NS/XX/<=-120C Plasma reduced 10% DMSO	S2068	T CELLS, APHERESIS NS/XX/<=-120C 10% DMSO Cryopreserved Plasma reduced
		S2069	T CELLS, WHOLE BLOOD NS/XX/<=-120C 10% DMSO Cryopreserved Plasma reduced
S1353	Cryopreserved TC-T CELLS NS/XX/<=-120C Plasma reduced 5% DMSO	S2070	T CELLS, APHERESIS NS/XX/<=-120C 5% DMSO Cryopreserved Plasma reduced
		S2071	T CELLS, WHOLE BLOOD NS/XX/<=-120C 5% DMSO Cryopreserved Plasma reduced
S1354	Cryopreserved TC-T CELLS NS/XX/<=-120C Plasma reduced 10% DMSO 3rd Party Comp:Yes	S2072	T CELLS, APHERESIS NS/XX/<=-120C 10% DMSO 3rd Party Comp:Yes Cryopreserved Plasma reduced
		S2073	T CELLS, WHOLE BLOOD NS/XX/<=-120C 10% DMSO 3rd Party Comp:Yes Cryopreserved Plasma reduced
S1355	Cryopreserved TC-T CELLS NS/XX/<=-120C Plasma reduced 5% DMSO 3rd Party Comp:Yes	S2074	T CELLS, APHERESIS NS/XX/<=-120C 5% DMSO 3rd Party Comp:Yes Cryopreserved Plasma reduced
		S2075	T CELLS, WHOLE BLOOD NS/XX/<=-120C 5% DMSO 3rd Party Comp:Yes Cryopreserved Plasma reduced

OLD CODE	Old DESCRIPTION	NEW CODE CHOICES	NEW DESCRIPTION
S1356	Thawed Washed TC-T CELLS NS/XX/rt Plasma reduced	S2076	T CELLS, APHERESIS NS/XX/rt Thawed Washed Plasma reduced
		S2077	T CELLS, WHOLE BLOOD NS/XX/rt Thawed Washed Plasma reduced
S1357	Thawed Washed TC-T CELLS NS/XX/rt Plasma reduced 3rd Party Comp:Yes	S2078	T CELLS, APHERESIS NS/XX/rt 3rd Party Comp:Yes Thawed Washed Plasma reduced
		S2079	T CELLS, WHOLE BLOOD NS/XX/rt 3rd Party Comp:Yes Thawed Washed Plasma reduced
S1386	TC-T CELLS Citrate/XX/rt 3rd Party Comp:Yes Other Additives:Yes	S2080	T CELLS, APHERESIS Citrate/XX/rt 3rd Party Comp:Yes Other Additives:Yes
S1387	TC-T CELLS None/XX/rt Mononuclear cells enriched 3rd Party Comp:Yes Other Additives:Yes	S2082	T CELLS, WHOLE BLOOD None/XX/rt 3rd Party Comp:Yes Other Additives:Yes Mononuclear cell enriched
S1388	Cryopreserved TC-T CELLS None/XX/<=-150C 10% DMSO 3rd Party Comp:Yes Other Additives:Yes	S2083	T CELLS, APHERESIS None/XX/<=-150C 10% DMSO 3rd Party Comp:Yes Other Additives:Yes Cryopreserved
		S2084	T CELLS, WHOLE BLOOD None/XX/<=-150C 10% DMSO 3rd Party Comp:Yes Other Additives:Yes Cryopreserved
S1389	Cryopreserved TC-T CELLS None/XX/<=-150C Mononuclear cells enriched 10% DMSO 3rd Party Comp:Yes Other Additives:Yes	S2086	T CELLS, WHOLE BLOOD None/XX/<=-150C 10% DMSO 3rd Party Comp:Yes Other Additives:Yes Cryopreserved Mononuclear cell enriched
S1390	Thawed TC-T CELLS None/XX/refg 3rd Party Comp:Yes Other Additives:Yes	S2087	T CELLS, APHERESIS None/XX/refg 3rd Party Comp:Yes Other Additives:Yes Thawed
		S2088	T CELLS, WHOLE BLOOD None/XX/refg 3rd Party Comp:Yes Other Additives:Yes Thawed

OLD CODE	Old DESCRIPTION	NEW CODE CHOICES	NEW DESCRIPTION
S1391	Thawed TC-T CELLS None/XX/refg Mononuclear cells enriched 3rd Party Comp:Yes Other Additives:Yes	S2090	T CELLS, WHOLE BLOOD None/XX/refg  3rd Party Comp:Yes Other Additives:Yes Thawed Mononuclear cells enriched
S1438	TC-T CELLS Citrate/XX/rt CD34 enriched	S2091	T CELLS, APHERESIS Citrate/XX/rt CD34 enriched
S1460	Cryopreserved TC-T CELLS Citrate/XX/<=-150C 10% DMSO 3rd Party Comp:Yes	S2092	T CELLS, APHERESIS Citrate/XX/<=-150C 10% DMSO 3rd Party Comp:Yes Cryopreserved
S1461	Cryopreserved TC-T CELLS Citrate+Heparin/XX/<=-150C 10% DMSO 3rd Party Comp:Yes	S2093	T CELLS, APHERESIS Citrate+Heparin/XX/<=-150C 10% DMSO 3rd Party Comp:Yes Cryopreserved
		S2094	T CELLS, WHOLE BLOOD Citrate+Heparin/XX/<=-150C 10% DMSO 3rd Party Comp:Yes Cryopreserved
S1462	Cryopreserved TC-T CELLS NS/XX/<=-150C Plasma reduced 10% DMSO 3rd Party Comp:Yes Other Additives:Yes	S2095	T CELLS, APHERESIS NS/XX/<=-150C  10% DMSO 3rd Party Comp:Yes Other Additives:Yes Cryopreserved Plasma reduced
		S2096	T CELLS, WHOLE BLOOD NS/XX/<=-150C 10% DMSO 3rd Party Comp:Yes Other Additives:Yes Cryopreserved Plasma reduced
S1463	Thawed TC-T CELLS Citrate/XX/refg Plasma reduced 10% DMSO 3rd Party Comp:Yes Other Additives:Yes	S2097	T CELLS, APHERESIS Citrate/XX/refg  10% DMSO 3rd Party Comp:Yes Other Additives:Yes Thawed Plasma reduced
S1464	Thawed TC-T CELLS Citrate+Heparin/XX/refg Plasma reduced 10% DMSO 3rd Party Comp:Yes	S2098	T CELLS, APHERESIS Citrate+Heparin/XX/refg 10% DMSO 3rd Party Comp:Yes Thawed Plasma reduced
		S2099	T CELLS, WHOLE BLOOD Citrate+Heparin/XX/refg 10% DMSO 3rd Party Comp:Yes Thawed Plasma reduced



OLD CODE	Old DESCRIPTION	NEW CODE CHOICES	NEW DESCRIPTION
S1465	Thawed Washed TC-T CELLS None/XX/refg 3rd Party Comp:Yes	S2100	T CELLS, APHERESIS None/XX/refg 3rd Party Comp:Yes Thawed Washed
		S2101	T CELLS, WHOLE BLOOD None/XX/refg 3rd Party Comp:Yes Thawed Washed
S1466	Pooled, Single Donor Thawed Washed TC-T CELLS None/XX/refg Plasma reduced 3rd Party Comp:Yes	S2102	T CELLS, APHERESIS None/XX/refg 3rd Party Comp:Yes Thawed Washed Pooled Single Donor:Yes Plasma reduced
		S2103	T CELLS, WHOLE BLOOD None/XX/refg 3rd Party Comp:Yes Thawed Washed Pooled Single Donor:Yes Plasma reduced
S1469	TC-T CELLS Citrate/XX/refg Plasma reduced	S2104	T CELLS, APHERESIS Citrate/XX/refg Plasma reduced
S1470	Cryopreserved TC-T CELLS Citrate/XX/<=-150C Plasma reduced 10% DMSO	S2105	T CELLS, APHERESIS Citrate/XX/<=-150C 10% DMSO Cryopreserved Plasma reduced
S1479	Cryopreserved TC-T CELLS Citrate/XX/<=-120C Plasma reduced 10% DMSO Other Additives:Yes	S2106	T CELLS, APHERESIS Citrate/XX/<=-120C 10% DMSO Other Additives:Yes Cryopreserved Plasma reduced
S1495	TC-T CELLS Citrate+Heparin/XX/refg	S2107	T CELLS, APHERESIS Citrate+Heparin/XX/refg
		S2108	T CELLS, WHOLE BLOOD Citrate+Heparin/XX/refg
S1496	TC-T CELLS Citrate+Heparin/XX/refg Plasma reduced 3rd Party Comp:Yes	S2109	T CELLS, APHERESIS Citrate+Heparin/XX/refg 3rd Party Comp:Yes Plasma reduced
		S2110	T CELLS, WHOLE BLOOD Citrate+Heparin/XX/refg 3rd Party Comp:Yes Plasma reduced

OLD CODE	Old DESCRIPTION	NEW CODE CHOICES	NEW DESCRIPTION
S1497	Thawed Washed TC-T CELLS Citrate/XX/refg 10% DMSO Other Additives:Yes	S2111	T CELLS, APHERESIS Citrate/XX/refg 10% DMSO Other Additives:Yes Thawed Washed
S1498	Thawed Washed TC-T CELLS Citrate/XX/refg Plasma reduced 10% DMSO 3rd Party Comp:Yes Other Additives:Yes	S2112	T CELLS, APHERESIS Citrate/XX/refg 10% DMSO 3rd Party Comp:Yes Other Additives:Yes Thawed Washed Plasma reduced
S1499	Thawed Washed TC-T CELLS Citrate+Heparin/XX/refg 10% DMSO Other Additives:Yes	S2113	T CELLS, APHERESIS Citrate+Heparin/XX/refg 10% DMSO Other Additives:Yes Thawed Washed
		S2114	T CELLS, WHOLE BLOOD Citrate+Heparin/XX/refg 10% DMSO Other Additives:Yes Thawed Washed
S1500	Thawed Washed TC-T CELLS Citrate+Heparin/XX/refg Plasma reduced 10% DMSO 3rd Party Comp:Yes Other Additives:Yes	S2115	T CELLS, APHERESIS Citrate+Heparin/XX/refg 10% DMSO 3rd Party Comp:Yes Other Additives:Yes Thawed Washed Plasma reduced
		S2116	T CELLS, WHOLE BLOOD Citrate+Heparin/XX/refg 10% DMSO 3rd Party Comp:Yes Other Additives:Yes Thawed Washed Plasma reduced
S1513	Cryopreserved TC-T CELLS Citrate/XX/<=-150C 6% HES + 5% DMSO 3rd Party Comp:Yes Other Additives:Yes	S2117	T CELLS, APHERESIS Citrate/XX/<=-150C 6% HES + 5% DMSO 3rd Party Comp:Yes Other Additives:Yes Cryopreserved
S1514	Cryopreserved TC-T CELLS Citrate/XX/<=-150C Plasma reduced 6% HES + 5% DMSO 3rd Party Comp:Yes Other Additives:Yes	S2118	T CELLS, APHERESIS Citrate/XX/<=-150C 6% HES + 5% DMSO 3rd Party Comp:Yes Other Additives:Yes Cryopreserved Plasma reduced
S1515	Cryopreserved TC-T CELLS Citrate/XX/<=-150C RBC reduced 6% HES + 5% DMSO 3rd Party Comp:Yes Other Additives:Yes	S2119	T CELLS, APHERESIS Citrate/XX/<=-150C  6% HES + 5% DMSO 3rd Party Comp:Yes Other Additives:Yes Cryopreserved RBC reduced

OLD CODE	Old DESCRIPTION	NEW CODE CHOICES	NEW DESCRIPTION
S1519	Cryopreserved TC-T CELLS Citrate+Heparin/XX/<=-120C 10% DMSO 3rd Party Comp:Yes Other Additives:Yes	S2120	T CELLS, APHERESIS Citrate+Heparin/XX/<=-120C 10% DMSO 3rd Party Comp:Yes Other Additives:Yes Cryopreserved
		S2121	T CELLS, WHOLE BLOOD Citrate+Heparin/XX/<=-120C 10% DMSO 3rd Party Comp:Yes Other Additives:Yes Cryopreserved
S1542	TC-T CELLS Citrate/XX/refg Other Additives:Yes	S2122	T CELLS, APHERESIS Citrate/XX/refg Other Additives:Yes
S1543	TC-T CELLS Citrate/XX/refg Plasma reduced Other Additives:Yes	S2123	T CELLS, APHERESIS Citrate/XX/refg Other Additives:Yes Plasma reduced
S1544	Cryopreserved TC-T CELLS Citrate/XX/<=-150C 10% DMSO Other Additives:Yes	S2124	T CELLS, APHERESIS Citrate/XX/<=-150C 10% DMSO Other Additives:Yes Cryopreserved
S1545	Cryopreserved TC-T CELLS Citrate/XX/<=-150C Plasma reduced 10% DMSO Other Additives:Yes	S2125	T CELLS, APHERESIS Citrate/XX/<=-150C 10% DMSO Other Additives:Yes Cryopreserved Plasma reduced
S1546	Thawed Washed TC-T CELLS NS/XX/rt Plasma reduced Other Additives:Yes	S2126	T CELLS, APHERESIS NS/XX/rt  Other Additives:Yes Thawed Washed Plasma reduced
		S2127	T CELLS, WHOLE BLOOD NS/XX/rt Other Additives:Yes Thawed Washed Plasma reduced
S1549	Thawed TC-T CELLS Citrate/XX/refg Plasma reduced 10% DMSO 3rd Party Comp:Yes	S2128	T CELLS, APHERESIS Citrate/XX/refg 10% DMSO 3rd Party Comp:Yes Thawed Plasma reduced
S1555	Cryopreserved TC-T CELLS None/XX/<=-150C Cultured 10% DMSO 3rd Party Comp:Yes Genetically Modified:Yes	S2129	T CELLS, APHERESIS None/XX/<=-150C 10% DMSO 3rd Party Comp:Yes Genetically Modified:Yes Cryopreserved Cultured:Yes

OLD CODE	Old DESCRIPTION	NEW CODE CHOICES	NEW DESCRIPTION
		S2130	T CELLS, WHOLE BLOOD None/XX/<=-150C 10% DMSO 3rd Party Comp:Yes Genetically Modified:Yes Cryopreserved Cultured:Yes
S1566	Cryopreserved TC-T CELLS Citrate/XX/<=-150C 5% DMSO 3rd Party Comp:Yes Other Additives:Yes	S2131	T CELLS, APHERESIS Citrate/XX/<=-150C 5% DMSO 3rd Party Comp:Yes Other Additives:Yes Cryopreserved
S1567	Cryopreserved TC-T CELLS Heparin/XX/<=-150C 5% DMSO 3rd Party Comp:Yes Other Additives:Yes	S2132	T CELLS, WHOLE BLOOD Heparin/XX/<=-150C 5% DMSO 3rd Party Comp:Yes Other Additives:Yes Cryopreserved
S1568	Cryopreserved TC-T CELLS Citrate+Heparin/XX/<=-150C 5% DMSO 3rd Party Comp:Yes Other Additives:Yes	S2133	T CELLS, APHERESIS Citrate+Heparin/XX/<=-150C 5% DMSO 3rd Party Comp:Yes Other Additives:Yes Cryopreserved
		S2134	T CELLS, WHOLE BLOOD Citrate+Heparin/XX/<=-150C 5% DMSO 3rd Party Comp:Yes Other Additives:Yes Cryopreserved
S1581	TC-T CELLS Citrate/XX/refg Plasma reduced 3rd Party Comp:Yes	S2136	T CELLS, APHERESIS Citrate/XX/refg 3rd Party Comp:Yes Plasma reduced
S1593	Cryopreserved TC-T CELLS Citrate+Heparin/XX/<=-120C 10% DMSO Other Additives:Yes	S2137	T CELLS, APHERESIS Citrate+Heparin/XX/<=-120C 10% DMSO Other Additives:Yes Cryopreserved
		S2138	T CELLS, WHOLE BLOOD Citrate+Heparin/XX/<=-120C 10% DMSO Other Additives:Yes Cryopreserved
S1594	Cryopreserved TC-T CELLS Citrate+Heparin/XX/<=-120C Plasma reduced 10% DMSO Other Additives:Yes	S2139	T CELLS, APHERESIS Citrate+Heparin/XX/<=-120C 10% DMSO Other Additives:Yes Cryopreserved Plasma reduced
		S2140	T CELLS, WHOLE BLOOD Citrate+Heparin/XX/<=-120C 10% DMSO Other Additives:Yes Cryopreserved Plasma reduced
S1595	TC-T CELLS Citrate+Heparin/XX/refg Plasma reduced	S2141	T CELLS, APHERESIS Citrate+Heparin/XX/refg Plasma reduced

OLD CODE	Old DESCRIPTION	NEW CODE CHOICES	NEW DESCRIPTION
		S2142	T CELLS, WHOLE BLOOD Citrate+Heparin/XX/refg Plasma reduced
S1596	Thawed TC-T CELLS Citrate/XX/refg 10% DMSO Other Additives:Yes	S2143	T CELLS, APHERESIS Citrate/XX/refg 10% DMSO Other Additives:Yes Thawed
S1601	TC-T CELLS Citrate/XX/refg Diluted		See replacement for S1542
S1602	TC-T CELLS Citrate/XX/refg RBC reduced Other Additives:Yes	S2144	T CELLS, APHERESIS Citrate/XX/refg Other Additives:Yes RBC reduced
S1604	TC-T CELLS Citrate+Heparin/XX/refg Diluted	S2146	T CELLS, APHERESIS Citrate+Heparin/XX/refg Other Additives:Yes
		S2147	T CELLS, WHOLE BLOOD Citrate+Heparin/XX/refg Other Additives:Yes
S1605	TC-T CELLS Citrate+Heparin/XX/refg RBC reduced Other Additives:Yes	S2148	T CELLS, APHERESIS Citrate+Heparin/XX/refg Other Additives:Yes RBC reduced
		S2149	T CELLS, WHOLE BLOOD Citrate+Heparin/XX/refg Other Additives:Yes RBC reduced
S1606	TC-T CELLS Citrate+Heparin/XX/refg buffy coat enriched Other Additives:Yes	S2151	T CELLS, WHOLE BLOOD Citrate+Heparin/XX/refg Other Additives:Yes Buffy coat enriched
S1607	Thawed TC-T CELLS Citrate+Heparin/XX/refg 10% DMSO Other Additives:Yes	S2152	T CELLS, APHERESIS Citrate+Heparin/XX/refg 10% DMSO Other Additives:Yes Thawed
		S2153	T CELLS, WHOLE BLOOD Citrate+Heparin/XX/refg 10% DMSO Other Additives:Yes Thawed
S1608		S2154	T CELLS, APHERESIS Citrate+Heparin/XX/refg 10% DMSO Other Additives:Yes Thawed Plasma reduced

OLD CODE	Old DESCRIPTION	NEW CODE CHOICES	NEW DESCRIPTION
	Thawed TC-T CELLS Citrate+Heparin/XX/refg Plasma reduced 10% DMSO Other Additives:Yes	S2155	T CELLS, WHOLE BLOOD Citrate+Heparin/XX/refg 10% DMSO Other Additives:Yes Thawed Plasma reduced
S1620	Cryopreserved TC-T CELLS Citrate/XX/<=-120C Plasma reduced 10% DMSO	S2156	T CELLS, APHERESIS Citrate/XX/<=-120C 10% DMSO Cryopreserved Plasma reduced
S1621	Thawed TC-T CELLS Citrate/XX/refg Plasma reduced 10% DMSO	S2157	T CELLS, APHERESIS Citrate/XX/refg 10% DMSO Thawed Plasma reduced
S1676	TC-T CELLS Citrate+Heparin/XX/refg 3rd Party Comp:Yes	S2158	T CELLS, APHERESIS Citrate+Heparin/XX/refg 3rd Party Comp:Yes
		S2159	T CELLS, WHOLE BLOOD Citrate+Heparin/XX/refg 3rd Party Comp:Yes
S1680	Cryopreserved TC-T CELLS Citrate+Heparin/XX/<=-150C Plasma reduced 10% DMSO 3rd Party Comp:Yes	S2160	T CELLS, APHERESIS Citrate+Heparin/XX/<=-150C 10% DMSO 3rd Party Comp:Yes Cryopreserved Plasma reduced
		S2161	T CELLS, WHOLE BLOOD Citrate+Heparin/XX/<=-150C 10% DMSO 3rd Party Comp:Yes Cryopreserved Plasma reduced
S1681	Cryopreserved TC-T CELLS Citrate+Heparin/XX/<=-150C Plasma reduced 10% DMSO	S2162	T CELLS, APHERESIS Citrate+Heparin/XX/<=-150C 10% DMSO Cryopreserved Plasma reduced
		S2163	T CELLS, WHOLE BLOOD Citrate+Heparin/XX/<=-150C 10% DMSO Cryopreserved Plasma reduced
S1690	Cryopreserved TC-T CELLS Citrate/XX/<=-150C Plasma reduced 10% DMSO 3rd Party Comp:Yes Other Additives:Yes	S2164	T CELLS, APHERESIS Citrate/XX/<=-150C 10% DMSO 3rd Party Comp:Yes Other Additives:Yes Cryopreserved Plasma reduced

OLD CODE	Old DESCRIPTION	NEW CODE CHOICES	NEW DESCRIPTION
S1691	Cryopreserved TC-T CELLS Citrate/XX/<=-150C 10% DMSO 3rd Party Comp:Yes Other Additives:Yes	S2150	T CELLS, APHERESIS Citrate/XX/<=-150C 10% DMSO 3rd Party Comp:Yes Other Additives:Yes Cryopreserved
S1710	Thawed TC-T CELLS Citrate/XX/refg 10% DMSO 3rd Party Comp:Yes Other Additives:Yes	S2145	T CELLS, APHERESIS Citrate/XX/refg 10% DMSO 3rd Party Comp:Yes Other Additives:Yes Thawed
S1717	TC-T CELLS NS/XX/rt CD4 enriched 3rd Party Comp:Yes Other Additives:Yes	S2135	T CELLS, APHERESIS NS/XX/rt 3rd Party Comp:Yes Other Additives:Yes CD4 enriched
		S2089	T CELLS, WHOLE BLOOD NS/XX/rt 3rd Party Comp:Yes Other Additives:Yes CD4 enriched
S1723	Cryopreserved TC-T CELLS Citrate/XX/<=-150C Plasma reduced 6% HES + 5% DMSO 3rd Party Comp:Yes	S2085	T CELLS, APHERESIS Citrate/XX/<=-150C 6% HES + 5% DMSO 3rd Party Comp:Yes Cryopreserved Plasma reduced
S1724	Cryopreserved TC-T CELLS Citrate/XX/<=-150C 6% HES + 5% DMSO 3rd Party Comp:Yes	S2081	T CELLS, APHERESIS Citrate/XX/<=-150C 6% HES + 5% DMSO 3rd Party Comp:Yes Cryopreserved
S1768	TC-T CELLS NS/XX/refg 3rd Party Comp:Yes Other Additives:Yes	S2047	T CELLS, APHERESIS NS/XX/refg 3rd Party Comp:Yes Other Additives:Yes
		S2043	T CELLS, WHOLE BLOOD NS/XX/refg 3rd Party Comp:Yes Other Additives:Yes
S1769	TC-T CELLS NS/XX/rt 3rd Party Comp:Yes Other Additives:Yes	S2041	T CELLS, APHERESIS NS/XX/rt 3rd Party Comp:Yes Other Additives:Yes
		S2040	T CELLS, WHOLE BLOOD NS/XX/rt 3rd Party Comp:Yes Other Additives:Yes
S1774	Cryopreserved TC-T CELLS NS/XX/<=-150C 10% DMSO 3rd Party Comp:Yes Other Additives:Yes	S2037	T CELLS, APHERESIS NS/XX/<=-150C 10% DMSO 3rd Party Comp:Yes Other Additives:Yes Cryopreserved

OLD CODE	Old DESCRIPTION	NEW CODE CHOICES	NEW DESCRIPTION
		S2035	T CELLS, WHOLE BLOOD NS/XX/<=-150C 10% DMSO 3rd Party Comp:Yes Other Additives:Yes Cryopreserved
S1783	Thawed TC-T CELLS NS/XX/refg 10% DMSO 3rd Party Comp:Yes Other Additives:Yes	S2019	T CELLS, APHERESIS NS/XX/refg 10% DMSO 3rd Party Comp:Yes Other Additives:Yes Thawed
		S2017	T CELLS, WHOLE BLOOD NS/XX/refg 10% DMSO 3rd Party Comp:Yes Other Additives:Yes Thawed
S1816	Thawed Washed TC-T CELLS NS/XX/refg 3rd Party Comp:Yes	S2013	T CELLS, APHERESIS NS/XX/refg 3rd Party Comp:Yes Thawed Washed
		S2011	T CELLS, WHOLE BLOOD NS/XX/refg 3rd Party Comp:Yes Thawed Washed
S1817	Thawed Washed TC-T CELLS NS/XX/refg	S2009	T CELLS, APHERESIS NS/XX/refg Thawed Washed
		S2007	T CELLS, WHOLE BLOOD NS/XX/refg Thawed Washed
S1908	Thawed Washed TC-T CELLS NS/XX/refg Cultured Other Additives:Yes Genetically Modified:Yes	S2004	T CELLS, APHERESIS NS/XX/refg Other Additives:Yes Genetically Modified:Yes Thawed Washed Cultured:Yes
		S2000	T CELLS, WHOLE BLOOD NS/XX/refg Other Additives:Yes Genetically Modified:Yes Thawed Washed Cultured:Yes



## 8 Product Description Code Retirement

Over time, Product Description codes may become inappropriate, redundant, or errors may be discovered. As a result, a mechanism exists to discontinue future use of these codes. However, because products may exist in inventories across the world, the codes must be retained in the database for backward compatibility. It is not intended that products already in inventory should be re-labeled because a Product Description code has been retired.

It is intended that users discontinue using retired Product Description codes for labeling of new products, although ICCBBA does not establish a timeline for doing so. A timeline may be established by other standard setting organizations.

Retired Product Description codes may be recognized by looking at the RETIREDATE field in the Product Description Code database. This “RETIREDATE” field indicates the date on which ICCBBA recommended the codes no longer be used for new products. Software should be written to recognize these codes, but not assign them to newly created products. It is understood that facilities must be given time to retire codes after ICCBBA has made its recommendation.

Retired codes are listed in the last chapter of *Standard Terminology for Medical Products of Human Origin (ST-002)*.

## 9 Crosswalk Old Product Descriptions to New Product Descriptions

Because of the length of this table it is attached below.

TIP: If the file is not available in Adobe, click View, Navigation Panels, Attachments or click on the paperclip icon located in the vertical menu bar. If these suggestions do not work, please contact the [ICCBBA technical department](#).



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