



To: Transfusion Services Managers
From: Hospital Relations
Date: June 25, 2024
Re: Reveos® Automated Component Processing Updates

Background:

Terumo Blood and Cell Technologies received approval from the Food and Drug Administration (FDA) of its Reveos® automated blood processing system on August 1, 2023. Carter BloodCare plans to implement this system to optimize component production operations. Implementation will be a phased approach and initial installation is scheduled for early September.

The Reveos® collection kit contains the red blood cell additive solution AS-5 (Optisol). This information is listed in the product code and description for the associated red blood cell components.

Table 2. Contents of Red Blood Cells Additive Solutions*

Additive Solution (mg/100 mL)	Dextrose		Monobasic Sodium		Dibasic Sodium		Sodium		Citric Acid	Shelf Life (Days)
	Mono-hydrate	Adenine	Phosphate	Phosphate	Mannitol	Bicarbonate	Chloride	Citrate		
AS-1 (Adsol)	2200	27	0	0	750	0	900	0	0	42
AS-3 (Nutricel)	1100	30	276	0	0	0	410	588	42	42
AS-5 (Optisol)	900	30	0	0	525	0	877	0	0	42
AS-7 (SOLX)	1585	27	0	170	1000	218	0	0	0	42

*100 mL AS/450 mL collection, 110 mL AS/500 mL collection.

*Table taken from the current version of the Circular of Information available at this link: <https://www.cbcspecialtyservices.org/licenses-accreditations>

The Reveos® system is equipped with a platelet yield index feature that provides a prediction of the platelet yield on each processed donation. We anticipate a potential increase of IMUGARD® whole blood derived pooled platelets utilizing this technology.

Impact to Clients:

- Red blood cell components processed on Reveos® contain AS-5. Following complete integration of the system, most of the red cells distributed by Carter BloodCare will be AS-5.
- Streamlined IMUGARD® whole blood derived pooled platelet production.
- Associated product codes are listed below for your reference.

Client Action Required:

- Ensure your transfusion service can receive these red blood cell and pooled platelet products into your LIS system.

ISBT Code	Product Description
E0398	RED BLOOD CELLS CPD>AS5/450mL/refg Irr ResLeu
E0401	RED BLOOD CELLS CPD>AS5/450mL/refg ResLeu:<5log6
E0420	RED BLOOD CELLS CPD>AS5/500mL/refg Irr ResLeu
E0424	RED BLOOD CELLS CPD>AS5/500mL/refg ResLeu:<5log6
EA789	POOLED PLATELETS CPD/XX/20-24C ResLeu:<5E6 4 units Bacterial monitoring
EA790	POOLED PLATELETS CPD/XX/20-24C ResLeu:<5E6 5 units Bacterial monitoring
EA791	POOLED PLATELETS CPD/XX/20-24C ResLeu:<5E6 6 units Bacterial monitoring
EA792	POOLED PLATELETS CPD/XX/20-24C Irradiated ResLeu:<5E6 4 units Bacterial monitoring
EA793	POOLED PLATELETS CPD/XX/20-24C Irradiated ResLeu:<5E6 5 units Bacterial monitoring
EA794	POOLED PLATELETS CPD/XX/20-24C Irradiated ResLeu:<5E6 6 units Bacterial monitoring
EA795	POOLED PLATELETS CPD/XX/20-24C ResLeu:<5E6 <3E11 plts Bacterial monitoring
EA796	POOLED PLATELETS CPD/XX/20-24C Irradiated ResLeu:<5E6 <3E11 plts Bacterial monitoring

Questions and Additional Information:

Please contact hospitalrelations@carterbloodcare.org with any concerns.