

Apheresis Platelet Products Offered by Versiti: A Side by Side Comparison



	Pathogen Reduced (PR) Platelet	Large Volume, Delayed Sampling (LVDS) Platelet – 7D	Large Volume, Delayed Sampling (LVDS) Platelet – 5D	Conventional Platelet
Description of Product	Apheresis platelet that undergoes pathogen inactivation process (INTERCEPT™ Blood System, Cerus Inc), within 24 hours of collection.	Apheresis platelet from which aerobic and anaerobic cultures (bioMerieux BACT/ALERT®) are obtained at a minimum of 48 hours after collection.	Apheresis platelet from which aerobic and anaerobic cultures (bioMerieux BACT/ALERT®) are obtained at a minimum of 36 hours after collection.	Apheresis platelet from which aerobic only culture (bioMerieux BACT/ALERT®) is obtained at a minimum of 24 hours after collection.
Proportion of Versiti Inventory Starting 3/1/21	50-70%	30-50%	0-1% (5-15% after 9/1/21)	5-15% (0% after 9/1/21)
Picture of Product	 <div data-bbox="352 1242 724 1437"> <p>E8333V00</p> <p>APHERESIS PLATELETS LEUKOCYTES REDUCED PSORALEN – TREATED 270 mL containing approx 38 mL ACD – A</p> </div>	 <div data-bbox="766 1242 1165 1437"> <p>E5031V00</p> <p>APHERESIS PLATELETS LEUKOCYTES REDUCED BACTERIAL MONITORING 7D 240 mL containing approx 31 mL ACD – A Store at 20 to 24 C</p> </div>	 <div data-bbox="1186 1242 1585 1437"> <p>Limited quantity available.</p> </div>	 <div data-bbox="1606 1242 2005 1437"> <p>Availability will be ending September 1, 2021.</p> </div>

	Pathogen Reduced (PR) Platelet	Large Volume, Delayed Sampling (LVDS) Platelet – 7D	Large Volume, Delayed Sampling (LVDS) Platelet – 5D	Conventional Platelet
Bacterial Mitigation Process	Psoralen plus UVA light treatment inactivates DNA in cells preventing replication of bacteria, viruses and protozoa, and donor lymphocytes.	Each apheresis platelet unit has 16 mL removed ≥48 hours after collection for aerobic and anaerobic cultures. Cultures are incubated for 12 hours prior to distribution of the product.	Each apheresis platelet unit has 16 mL removed ≥36 hours after collection for aerobic and anaerobic cultures. Cultures are incubated for 12 hours prior to distribution of the product.	Each apheresis platelet collection ('mother bag') has 8 mL removed ≥24 hours after collection for aerobic culture only and incubated for minimum 12 hours prior to distribution.
Volume*	205 - 343 mL	183 – 346 mL	183 – 346 mL	199 – 350 mL
Platelet Yield*‡	3.0 – 4.1 x 10 ¹¹	3.0 – 4.6 x 10 ¹¹	3.0 – 4.6 x 10 ¹¹	3.0 – 4.5 x 10 ¹¹
* Stated ranges represent a majority of products ‡ Actual platelet yield is on each platelet at time of distribution				
Expiration (day of collection = Day 0)	5 days	7 days	5 days	5 days
Earliest Product is Available for Release	Day 2	Day 3	Day 2	Day 2
Storage Conditions	20-24°C with agitation	20-24°C with agitation	20-24°C with agitation	20-24°C with agitation
Special Attributes/Modifications				
CMV Seronegative	Equivalent (Leukocyte-reduced & CMV inactivated by processing) Not Orderable	Leukocyte-reduced (considered CMV safe) Orderable	Leukocyte-reduced (considered CMV safe) Orderable	Leukocyte-reduced (considered CMV safe) Orderable
Irradiation	Equivalent (donor lymphocytes inactivated by processing) Not Orderable	Orderable	Orderable	Orderable
Volume Reduction	Orderable	To be determined/awaiting ISBT code	To be determined/awaiting ISBT code	Orderable
Washing	Orderable	To be determined/awaiting ISBT code	To be determined/awaiting ISBT code	Orderable
Aliquot bags (on request)	Yes	Yes	Yes	Yes

	Pathogen Reduced (PR) Platelet	Large Volume, Delayed Sampling (LVDS) Platelet – 7D	Large Volume, Delayed Sampling (LVDS) Platelet – 5D	Conventional Platelet
Advantages / Disadvantages				
Advantages (compared to conventional platelets)	<ul style="list-style-type: none"> • Decreased risk of bacterial contamination compared to conventional platelets. • Sooner availability post collection. • No need to irradiate. • No need to request CMV Negative for at-risk patients. • Proactive approach to prevent potential infection from novel and/or unknown viruses, prions, and other infectious agents. 	<ul style="list-style-type: none"> • Decreased risk of bacterial contamination compared to conventional platelets. • 7-day shelf life without need for additional bacterial testing. • Similar properties and efficacy as conventional platelets. 	<ul style="list-style-type: none"> • Decreased risk of bacterial contamination compared to conventional platelets. • Similar properties and efficacy as conventional platelets. 	
Disadvantages	<ul style="list-style-type: none"> • Unclear effect on 1-hour post-transfusion platelet count increments and mean time to next transfusion. • Potential supply constraints based on requirements for manufacture. 	<ul style="list-style-type: none"> • May not reduce risk of bacterial contamination as much as PR platelets. • Detection of bacteria, although increased with large volume sampling, is not guaranteed. • Other infectious agents (such as viruses, prions or protozoa) are not detected. 	<ul style="list-style-type: none"> • May not reduce risk of bacterial contamination as much as PR platelets. • Detection of bacteria, although increased with large volume sampling, is not guaranteed. • Other infectious agents (such as viruses, prions or protozoa) are not detected. 	<ul style="list-style-type: none"> • May not reduce risk of bacterial contamination as much as PR platelets. • Requires secondary bacterial detection after 3 days of storage.
Product Administration	No change from current practice. Follow institutional policy.			
Cautions / Additional Information	<ul style="list-style-type: none"> • Avoid in patients with history of hypersensitivity reaction to amotosalen or other psoralens. • Potential rare risk of erythema in neonates treated with phototherapy devices that emit a peak energy wavelength <425 nm or have a lower bound of emission bandwidth <375 nm. 	<ul style="list-style-type: none"> • Licensure from FDA for 7-D platelets is required to allow shipping out-of-state from all Versiti facilities. Until licensure is obtained, 5-D platelets will be the only product available for shipping out-of-state. 	<ul style="list-style-type: none"> • Required substitute to meet patient needs. • Expiration can be extended up to 7 days if secondary bacterial detection testing performed. 	<ul style="list-style-type: none"> • Product availability will continue to decline until manufacturing stops on or around September 1, 2021.

