

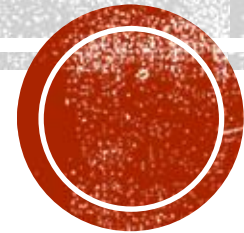
PLATELETS

Psoralen Treated-Pathogen Reduced (PR)

Large Volume Delayed Sampling (LVDS 36)

Large Volume Delayed Sampling (LVDS 48)

Effective June 1st, 2021



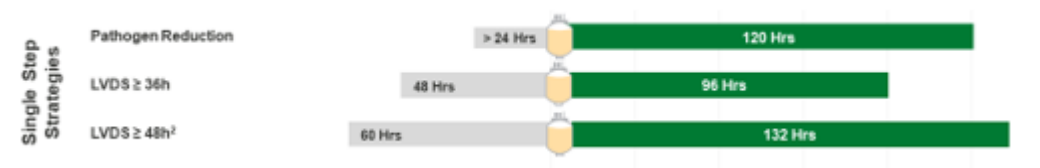
FOOD AND DRUG ADMINISTRATION(FDA) PLATELET BACTERIAL GUIDANCE

- FDA has established regulations to address the control of bacterial contamination of platelets. Under 21 CFR 606.145(a), blood establishments and transfusion services must assure that the risk of bacterial contamination of platelets is adequately controlled using FDA approved or cleared devices, or other adequate and appropriate methods found acceptable for this purpose by FDA. **Implementation by 2021**
- <https://www.fda.gov/media/123448/download>
- Recommendations to control the risk of bacterial contamination applies to:
 - Room temperature stored platelets intended for transfusion
 - Apheresis and Whole Blood derived platelets
 - Single Donor Platelets and Acrodose pools
 - Platelets in plasma and preservative



BLOOD SUPPLIERS TESTING STRATEGIES

- Single Step Strategies implemented to meet FDA guidance
 1. Large Volume, Delayed Sampling (LVDS) ≥ 36 hours
 2. Large Volume, Delayed Sampling (LVDS) ≥ 48 hours
 3. Pathogen Reduction
- Shelf Life- 5 to 7 days, hours in green indicate potential shelf life in TSL upon release from blood supplier



LARGE VOLUME DELAYED SAMPLING (LVDS)

LVDS 36 (NO SOONER THAN 36 HOURS)

- **Single culture sampled no sooner than 36 hours after collection**
 - Single-step strategy
 - Inoculate both aerobic and anaerobic cultures
 - Minimum sample volume 16 mL
 - Sample each apheresis unit
 - Each split from a unit should be sampled
 - Minimum incubation 12 hours prior to release
 - **5 day** product expiration (48 hour hold time at blood supplier prior to release to TSL)
 - Can be extended beyond 5 days with verax PGD testing to day 6 and day 7 on non pas platelets



LARGE VOLUME DELAYED SAMPLING (LVDS)

LVDS 36 (NO SOONER THAN 36 HOURS)

Advantages:

- Does not hold product as long as LVDS 48
- Secondary testing (Verax) can be applied to non PAS
- Lower Cost than Pathogen Reduction

Disadvantages:

- Impact to available inventory
 - Holds product longer than Pathogen Reduction
 - Shelf life in TSL shorter than current state due to delayed release



LARGE VOLUME DELAYED SAMPLING LVDS 48 (NO SOONER THAN 48 HOURS)

- **Single culture sampled no sooner than 48 hours after collection**
 - Single-step strategy
 - Inoculate both aerobic and anaerobic cultures
 - Minimum sample volume 16 mL
 - Sample each apheresis platelet
 - Each split from a unit should be sampled
 - Minimum incubation 12 hours prior to release
 - 7 day product expiration (60 hour hold time at blood supplier prior to release to TSL)
 - Cannot extend beyond 7 days



LARGE VOLUME DELAYED SAMPLING LVDS 48 (NO SOONER THAN 48 HOURS)

Advantages:

- More likely to detect infectious agent with additional growth time
- Lower Cost than Pathogen Reduction
- 7-Day Product

Disadvantages:

- Impact to available inventory
 - Holds product longer than Pathogen Reduction
- PAS platelets not eligible



PATHOGEN REDUCTION (PR)

PSORALEN TREATED/UVA LIGHT TREATMENT

- Targets DNA & RNA to prevent proliferation of pathogens
- Replacement for primary and secondary bacterial culture screening
- Approved alternative to Gamma Irradiation to prevent transfusion associated graft vs. host disease
- Apheresis platelets
- Currently **5 day** expiration
- Do **not centrifuge** platelet in storage container, transfer contents to transfer pack for volume reduction. The PR platelet bags have a higher incidence of breakage that can occur during centrifugation
- Pathogen Reduced and PAS do not mean the same and are not interchangeable in their use



PATHOGEN REDUCTION (PR) PSORALEN TREATED/UVA LIGHT TREATMENT

Advantages:

- Product Availability – Early Release, Optimal Shelf-Life
- **Replaces Irradiation**
- Replaces CMV testing

Disadvantages:

- 5 Day expiration
- Higher Cost



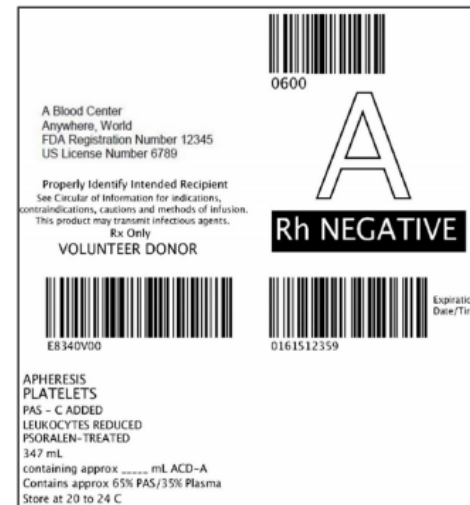
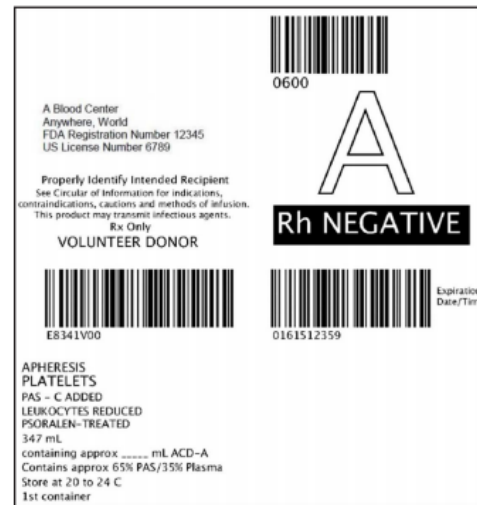
AMERICAN RED CROSS

IMPLEMENTATION JUNE 1ST, 2021

- American Red Cross will supply the following
 - ❑ PAS Psoralen Treated (PAS PR) platelets - *majority of ARC collections will PAS PR*
 - ❑ PAS non Psoralen Treated platelets
 - ❑ Apheresis in plasma (non PAS) platelets
 - ❑ All platelets have 5 day expiration



PR PLATELETS IN PAS-C FROM ARC



Apheresis in Platelet Additive Solution (PAS-C)

EB340 Apheresis PLATELETS | ACD-A>PAS-C/XX/20-24C | ResLeu:<5E⁶ | Psoralen-treated

EB341 Apheresis PLATELETS | ACD-A>PAS-C/XX/20-24C | ResLeu:<5E⁶ | 1st container | Psoralen-treated

EB342 Apheresis PLATELETS | ACD-A>PAS-C/XX/20-24C | ResLeu:<5E⁶ | 2nd container | Psoralen-treated

EB343 Apheresis PLATELETS | ACD-A>PAS-C/XX/20-24C | ResLeu:<5E⁶ | 3rd container | Psoralen-treated

EB344 Apheresis PLATELETS | ACD-A>PAS-C/XX/20-24C | ResLeu:<5E⁶ | <3E¹¹ plts | Psoralen-treated



BLOODWORKS NORTHWEST

IMPLEMENTATION AS EARLY AS JUNE 1ST, 2021

- ❑ PAS platelets- (LVDS 36) *majority of BW supply to TSL will be PAS*
- ❑ Psoralen Treated (PR) platelets
- ❑ Apheresis in plasma (non PAS) platelets (LVDS 36 and LVDS 48)
- ❑ PAS, PR platelets will have 5 day expiration LVDS 36 have 5 day expiration – eligible to extend to day 6 and 7 with verax for non pas
- ❑ LVDS 48 have 7 day expiration

BW expects to support TSL primarily with PAS 5 day and non PAS 7 day platelets. PR and non PAS 5 day platelets will also be provided in lesser quantities. BW will also be sending all platelet components either irradiated or pathogen reduced



PAS PLATELETS LVDS 36H

5-day PAS-F LVDS Apheresis Platelets - new ISBT Codes		
Existing Codes	New Codes	PAS-F Irradiated
E7791	EA031	Apheresis PLATELETS ACD-A>PAS-F/XX/20-24C Irradiated ResLeu:<5E6 Bacterial Monitoring >=36h
E7792	EA032	Apheresis PLATELETS ACD-A>PAS-F/XX/20-24C Irradiated ResLeu:<5E6 1st container Bacterial Monitoring >=36h
E7793	EA033	Apheresis PLATELETS ACD-A>PAS-F/XX/20-24C Irradiated ResLeu:<5E6 2nd container Bacterial Monitoring >=36h
E7794	EA034	Apheresis PLATELETS ACD-A>PAS-F/XX/20-24C Irradiated ResLeu:<5E6 3rd container Bacterial Monitoring >=36h



PR PLATELETS

E8331	Apheresis PLATELETS ACD-A/XX/20-24C ResLeu:<5E6 Psoralen-treated
E8332	Apheresis PLATELETS ACD-A/XX/20-24C ResLeu:<5E6 1st container Psoralen-treated
E8333	Apheresis PLATELETS ACD-A/XX/20-24C ResLeu:<5E6 2nd container Psoralen-treated
E8334	Apheresis PLATELETS ACD-A/XX/20-24C ResLeu:<5E6 3rd container Psoralen-treated



NON PAS PLATELETS (LVDS36 AND LVDS48)

5-day LVDS Apheresis Platelets - new ISBT codes

Existing Codes	New Codes	Leukoreduced - Irradiated
E3046	EA015	Apheresis PLATELETS ACD-A/XX/20-24C Irradiated ResLeu:<5E6 Bacterial Monitoring >=36h
E3056	EA016	Apheresis PLATELETS ACD-A/XX/20-24C Irradiated ResLeu:<5E6 1st container Bacterial Monitoring >=36h
E3057	EA017	Apheresis PLATELETS ACD-A/XX/20-24C Irradiated ResLeu:<5E6 2nd container Bacterial Monitoring >=36h
E3058	EA018	Apheresis PLATELETS ACD-A/XX/20-24C Irradiated ResLeu:<5E6 3rd container Bacterial Monitoring >=36h

7-day LVDS Apheresis Platelets - ISBT codes unchanged

Existing Codes	Leukoreduced Irradiated
E5034	Apheresis PLATELETS ACD-A/XX/20-24C Irradiated ResLeu:<5E6 Bacterial monitoring 7D
E5035	Apheresis PLATELETS ACD-A/XX/20-24C Irradiated ResLeu:<5E6 1st container Bacterial monitoring 7D
E5036	Apheresis PLATELETS ACD-A/XX/20-24C Irradiated ResLeu:<5E6 2nd container Bacterial monitoring 7D
E5037	Apheresis PLATELETS ACD-A/XX/20-24C Irradiated ResLeu:<5E6 3rd container Bacterial monitoring 7D



EXAMPLE OF LVDS 36 PLATELET



W1416 21 500175  2

Bloodworks
Seattle WA 98104-1256
FDA Registration Number 3071347

Properly identify intended recipient.
See circular of information for indications,
contraindications, cautions, and methods of infusion.
This product may transmit infectious agents.
Rx only

VOLUNTEER DONOR



EA031200 DIRECTED

APHERESIS
PLATELETS
PAS-F ADDED
IRRADIATED
LEUKOCYTES REDUCED
BACTERIAL MONITORING \geq 36 HOURS

258 mL containing approx _____ mL

ACD-A

Contains approx. 65% PAS/35% Plasma

Store at 20 to 24 C



5000

O

Rh POSITIVE



Expirat
Date

0211432359

23 MAY 2021



EXAMPLE OF LVDS 48 PLATELET



W1416 21 500181 8 6

Bloodworks
Seattle WA 98104-1256
FDA Registration Number 3071347

Properly identify intended recipient.
See circular of information for indications,
contraindications, cautions, and methods of infusion.
This product may transmit infectious agents.
Rx only

VOLUNTEER DONOR



E5035V00

APHERESIS
PLATELETS
IRRADIATED
LEUKOCYTES REDUCED
BACTERIAL MONITORING 7D

258 mL containing approx _____ mL
ACD - A
Store at 20 to 24 C
1st Container



5100
O

Rh POSITIVE



0211432359
23 MAY 2021

Expirat
Date



EXAMPLE OF PATHOGEN REDUCE PLATELET



W1416 21 500182 8 4

Bloodworks
Seattle WA 98104-1256
FDA Registration Number 3071347

Properly identify intended recipient.
See circular of information for indications,
contraindications, cautions, and methods of infusion.
This product may transmit infectious agents.
Rx only

VOLUNTEER DONOR



E8334V00

**APHERESIS
PLATELETS
LEUKOCYTES REDUCED
PSORALEN-TREATED**

258 mL containing approx _____ mL
ACD-A
Store at 20 to 24 C
3rd Container



5100

O

Rh POSITIVE



0211432359

23 MAY 2021

Expirat
Date



TRANSFUSION TAG COMPONENT DESCRIPTION

- *P or PPH*- PLATELET
- *PAS*- PAS PLATELET
- *HLA*- HLA PLATELET
- *W*- WASHED
- *RV*- VOLUME REDUCED
- *I*- IRRADIATED
- *L*-LEUKOREDUCED
- *PR*- PATHOGEN REDUCED (PSORALEN TREATED on label)
- EXAMPLES
 - *PPAS RV IL*- PLATELET PAS VOLUME REDUCE IRRADIATED LEUKOREDUCED
 - *PHLA 1 W IL*- PLATELET HLA 1ST CONTAINER WASHED IRRADIATED LEUKOREDUCED
 - *PPH2 PASLPR*- PLATELET 2ND CONTAINER PAS LEUKOREDUCED PATHOGEN REDUCED



SUMMARY-KEY POINTS

- Pathogen reduced is Psoralen Treated. Does not require irradiation
- Psoralen treated platelet bag cannot be centrifuged. Transfer to a transfer pack prior to centrifugation during volume reduction
- PAS platelets can be pathogen reduced or non pathogen reduced.
- Patient example: Patient blood type **B pos** and is a **BMT: RV Plt A/O or PAS, irradiated or pathogen reduced**. The following platelets are acceptable examples to provide to the patient:
 - Group B pas or non pas platelet irradiated
 - Group B pas or non pas platelet psoralen treated
 - Group A platelet PAS irradiated
 - Group A platelet PAS psoralen treated
 - Group A platelet non pas psoralen treated and volume reduced

