

# Platelets

*For Research or For Further Processing Use*

## Product Description

Platelet components are harvested from whole blood through centrifugation. Centrifugation may be performed on a previously collected 500mL whole blood unit or using a platelet apheresis device. Platelets are manufactured as:

- **Platelets**- containing approximately  $5.5 \times 10^{10}$  platelets in approximately 40—70mL of plasma with citrate-phosphate-dextrose (CPD) anticoagulant.
- **Apheresis Platelets**- containing approximately  $3.0 \times 10^{11}$  platelets in volumes of plasma > 100mL with Anticoagulant Citrate Dextrose, Solution A (ACD-A) anticoagulant.
- **Apheresis Platelets Leukocytes Reduced**- containing approximately  $3.0 \times 10^{11}$  platelets in volumes of plasma > 100mL with  $<5.0 \times 10^6$  Leukocytes Anticoagulant Citrate Dextrose, Solution A (ACD-A) anticoagulant.

## Product Source

Platelet components are collected from donors meeting eligibility and suitability requirements to provide blood components suitable for injected into humans.

## Product Processing

- **Platelets**- whole blood is centrifuged at low RMPs to separate Red Blood Cells (RBCs) for platelet rich plasma (PRP). High RMP centrifugation is used to separate platelets from platelet poor plasma (PPP).
- **Apheresis Platelets**- a FDA 510(k) cleared cell separator is used to isolate platelets from whole blood. Low volumes of blood are pulled from the donor, platelets and plasma are removed and remaining blood elements are returned to the donor. This process continues until the desire number of platelets is collected, typically 1-2 hours.

## Product Testing

Platelet counts are performed to ensure that products meet minimum requirements. Additional flowcytometry enumeration of cell subsets can be performed. All units are sterility tested using a method compliant with USP <71>.

## Product Storage

Product is stored with continuous agitation at 20-24°C for five to seven days.

## Warning

This product is composed of human-derived materials. Always wear appropriate personal protective equipment when handling this product and treat it as potentially infectious, using Universal Precautions, regardless of the results of infectious disease testing.

## Limitations and Publications

This product is for research use or therapeutic use only, not for resale. Nothing produced directly from this product may be sold. When publishing scientific results obtained using this product, acknowledge supplier as Bio-Sharing.org.