

**Human Platelet Lysate (Stemulate®)  
Pathogen-Reduced Human Platelet Lysate (nLiven PR™ and T-Liven PR™)  
Product Instructions**

**Product Description:**

Stemulate®, nLiven PR™, T-Liven PR™ are cell culture supplements derived from human platelets.

- Product Codes: PL-SP-100, PL-SP-500, PL-NH-100, PL-NH-500, PL-PR-100, PL-PR-500, TL-PR-50C, TL-PR-100C, TL-PR-150C, TL-PR-250C, TL-PR-500C
- Heparin was not added at any point during manufacture and is not required for use of this product.

**Precautions:**

Universal precautions should be used in the handling and disposal of Stemulate, nLiven PR, and T-Liven PR.

**Instructions for Use**

**Receipt and Storage:**

This product is supplied sterile filtered and aseptically filled. Sterility is maintained if container is not opened and not damaged. Recommended storage of this product is -20°C.

**Thawing Instructions:**

For bottled product, place the container in a 37°C water bath until the product has no ice remaining. It is not recommended to thaw the product on a bench top or in a refrigerator. Once thawed, the product may be used immediately.

For bagged product, first ensure that the overpack bag is completely sealed. If possible, submerge only the portion of the bag containing the product below the water surface; keep the opening of the overpack bag/tubing above the water surface. Thaw the product until no ice remains. It is not recommended to thaw the product on a bench top or in a refrigerator. Once thawed, the product may be used immediately.

**Appearance:**

Turbidity or precipitate may appear upon thawing. This precipitate may also appear during short term storage or prolonged storage within a buffered system at a refrigerated temperature. This is normal and will not affect performance of the product. Filtration is not recommended.

**Stability:**

Thaw and aliquot the product upon receipt to minimize freeze/thaw cycles. For short term storage up to 24 hours, the product must be stored at a temperature between 2-8°C.

**Preparation and Use:**

Optimal concentration of this product must be determined for each cell line and/or application.