

T-Liven PR®

Preserving the promise™



A pathogen-reduced and heparin-free cell culture media for T-cell expansion

T-Liven PR® is a GMP-ready human platelet lysate (hPL) for closed system bioprocessing with release against a T-cell growth release assay for optimal immune cell quality. This hPL was designed to meet your needs of challenging therapeutic development processes and evolving global regulations through:

- ✦ **Increased safety:** Validated pathogen reduction technology using E-Beam irradiation.
- ✦ **Closed system compatible:** Available in a convenient bag format, T-Liven PR can be seamlessly integrated into closed system bioprocessing workflows.
- ✦ **Optimal cell quality:** Promotes improved in vitro and in vivo T-cell performance, including enhanced proliferation, prolonged persistence, and superior anti-tumor response*.
- ✦ **Improved phenotype:** Consistently produces cells with improved naïve and central memory phenotype compared to expansion in FBS or AB Serum.
- ✦ **Reduced variability:** A biodefined composition contributes to lower lot-to-lot variability compared to other options like FBS or AB Serum.

*Data on file.

- ✦ **Flexible usage:** Can be used as a culture supplement to replace FBS or AB Serum and supports a wide range of cell types beyond T-cells, including MSCs, NK Cells, and Endothelial cells. Maintains a fully closed system during storage and shipping.
- ✦ **Improves** traceability and chain-of-identity.

Drive preferential T-cell phenotypes

- ✦ Available in 100 mL bag format and custom packaging options.
– 100 mL Part #: TL-PR-150C
- ✦ Manufactured under a certified ISO 9001:2015 Quality Management System and in accordance with cGMP standards.
- ✦ Manufactured from large donor pool lot sizes
- ✦ Manufactured from outdated FDA/AABB approved apheresis platelet units.
- ✦ FDA Master File.
- ✦ Used for manufacturing in US, EU, and other clinical trials globally.
- ✦ Typically used at concentrations 2% to 10%.
- ✦ Used in 2D and 3D expansion systems.
- ✦ Pathogen reduction applied per EU Pharmacopoeia.