

Product Information

HistoDenz™ 14.1% Solution

Product Number **H 5528**

Storage Temperature 2-8 °C

Product Description

Density: 1.078 ± 0.002 g/ml

Osmolality: 300 ± 10 mOsm

Sterility: Aseptically filtered (0.2μ)

This product is a solution of 14.1% (w/v) HistoDenz™, 0.44% (w/v) NaCl, and 5 mM tricine, pH 7.2. It is suitable for use in the isolation of lymphocytes. It is suggested that platelet depleted blood be used because some platelets may separate with the lymphocytes.

Storage/Stability

It is recommended to store the product at 2-8 °C, protected from light

Procedure

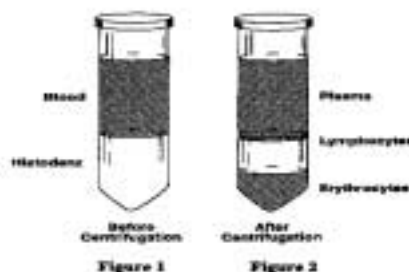
Note: The entire procedure should be performed at room temperature (18-22 °C).

1. Mix an equal volume of anticoagulated blood with physiological saline (0.9%).
2. In a 15 ml centrifuge tube, carefully layer 6 ml of diluted blood from step 1 over 3 ml of the 14.1% HistoDenz Solution. Avoid mixing of the two layers (See Figure 1). Cap the tube.
3. Centrifuge at $800 \times g$ for 25 minutes at room temperature in a swingout rotor.

Note: Lymphocytes will form a white layer at the interface region between the plasma and the HistoDenz Solution (See Figure 2).

4. Remove the supernatant to a level 3-4 mm above the white band. Then carefully collect the lymphocytes with a plastic pipette. To ensure complete removal of lymphocytes, move the pipette over the whole cross sectional area of the layer interface and collect the HistoDenz layer to a level approximately 2 mm above the erythrocyte layer.
5. Lymphocytes may be concentrated by diluting with physiological saline and centrifuging at $400 \times g$ for 10 minutes.

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