

Datasheet

Panserin 701

Complete Medium for Serum-free Cultivation of Lymphocytes

Product	Description	Catalogue-No.	Size
Panserin 701	Ready-to-use serum-free medium for cultivation of lymphocytes	P04-710701M P04-710701	100 ml 500 ml

Product description

Panserin 701 is a fully defined, complete ready-to-use serum-free medium for the cultivation of lymphocytes from whole blood.

Storage conditions

Storage: -20°C (in the dark)
 Stability: 10 months from date of production
 Size: 100 ml, 500 ml, other sizes on request

Composition

Based on Iscove's MEM the medium is enriched with additional trace elements, albumin, cholesterol, lipids and vitamins. It contains the mitogen phytohemagglutinin (PHA) for the growth stimulation of lymphocytes. This product contains traces of animal-derived components (< 0.2 % w/v) and proteins (< 0.2 % w/v).

Special advantages

Panserin 701 has been developed for the serum-free cultivation of lymphocytes from whole blood. The plant lectin (PHA) in Panserin 701 stimulates cell division.

Instructions for use

Isolation of lymphocytes from whole blood using density gradient centrifugation

- Mix heparinized blood 1:1 with DPBS (without Mg²⁺/Ca²⁺) and carefully transfer in centrifuge tubes, which were pre-filled with lymphocyte separation medium (Pancoll, density 1.077 g/ml). Pipette carefully to avoid mixture of the different phases.
- Centrifuge the gradient at room temperature for 30 minutes at 800 g (brake of centrifuge switched "OFF"); centrifugation will reveal 4 phases:
 - Top yellow layer: plasma
 - Opaque white layer: lymphocytes
 - Clear layer: separation medium
 - Bottom layer: pellet with erythrocytes and granulocytes
- Remove the plasma with a pipette and transfer the lymphocytes with a fresh pipette into a new centrifuge tube.
- Wash the lymphocytes with DPBS (without Mg²⁺/Ca²⁺) and centrifuge at 200 g for 10 minutes. Repeat washing procedure.

Cultivation and stimulation of lymphocytes

- Resuspend lymphocytes in Panserin 701 at a cell density of 1 x 10⁵.
- Incubate for 48 to 72 hours, depending on the nature and origin of lymphocytes and on future use.
- Re-stimulation with Panserin 701 after 1-2 weeks of culture may be necessary.

Technical support

For technical support, questions or remarks please contact your local PAN-Biotech partner or the technical department of PAN-Biotech via email (info@pan-biotech.com) or phone +49-8543-601630.

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