

Datasheet

PHA-L

Phytohemagglutinin L

Product	Description	Catalogue-No.	Size
PHA-L	Phytohemagglutinin L	P05-01010M P05-01010	5 ml 6 x 5 ml

Product description

Phytohemagglutinin is a lectin derived from plants (legumes). It is suitable for the stimulation of Lymphocytes (PHA-L) or the agglutination of Erythrocytes (PHA-E).

Lectins are an important mitogen group. Lectins bind specifically to membrane-glycoproteins of different cells, including lymphocytes. The agglutinating effect leads to lymphocyte activation and proliferation.

Phytohemagglutinins have several binding sites to carbohydrates located in the cell membrane of the targeted cells. PHA-L recognises complex oligosaccharides and binds to them leading to an agglutinating effect. Binding of the mitogen to the cell membrane seems to increase the molecular/information flow between the cell and its environment. Increased membrane permeability activates the synthesis of proteins and nucleic acids. The synthesis rate for messenger substances like lymphokines (e.g. IL-2) is also increased.

Storage conditions

Storage: solution: - 20 °C, lyophilized powder: +2°C to +8°C

Stability: powder is stable until the printed expiry at 2 – 8 °C, reconstituted solution is stable at – 20 °C

Composition

Phytohemagglutinin-L from Phaseolus vulgaris (red kidney bean)

Suitability

Plant Lectin for stimulating Lymphocyte proliferation and differentiation

Instructions for Use

Reconstitute one vial aseptically with 5 ml sterile Pure Water. Apply 1 ml of the reconstituted solution to 100 ml cell culture medium. Further instructions for using PHA-L for lymphocyte stimulation can be found in the datasheet for Panserin 413 (Cat. No.: P04-710413)

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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