

Datasheet

Panserin 411

Serum-free Complete Medium with Insulin

Product	Description	Catalogue-No.	Size
Panserin 411	Serum-free complete medium for Insulin-dependent cells	P04-710411M P04-710411	100 ml 500 ml

Product description

Panserin 411 is a complete ready to use medium for the serum-free cultivation of a multitude of adherent and non-adherent cells which are Insulin-dependent (e.g. CHO-cells).

Storage conditions

Storage conditions: 2-8°C
 Stability: 10 months from date of production
 Filling: 100 ml, 500 ml, other sizes on request

Composition

Based on Iscove's MEM, trace elements, albumin, cholesterol, soy lipids, vitamins and insulin were added to the medium. It does not contain any growth or attachment factors.

Suitability

Panserin 411 is suitable for a variety of cells.

Special Advantages

Panserin 411 is a multipurpose medium suitable for a variety of cells. In Panserin 411 adherent as well as non-adherent cells can be cultivated. As the medium contains no growth factors there is a possibility to investigate the effects of specific growth factors added to the cell culture.

Panserin 411 does not contain any attachment factors. With some cell types a pretreatment of the cell culture vessels with gelatine, collagen, poly-D-lysine, poly-L-lysine or fibronectin may support or enable a culture under serum-free conditions. Please note that a coating may be especially important with low seeding densities.

With every adaption to serum-free media, changes of the cells should be taken into consideration. These changes may concern morphology, karyotype, surface markers and so on. Thus cells in serum-free medium may not be identical with those from cultures containing serum in which they originated (selection).

Instructions for Use

In many cases the switch from serum-containing to serum-free cultivation can be done without any special adaption procedures.

For those cells which do not tolerate an immediate switch we recommend a primary culture with serum containing medium and a stepwise reduction of medium towards a serum-free cultivation. We can provide you with an adaption protocol for many different cell types.

This stepwise adaption will also be supported by higher cell seeds or using a lowered serum concentration after attachment of the cells in medium containing a higher amount of serum.

For the successful transfer into serum-free cultivation the vitality of the cells is an important factor. Thus the cells should be transferred in the logarithmic growth phase. According to our experience the transfer in the logarithmic growth phase will have higher prospects of success

In adherent cells it should be assured that - if trypsin is used for detachment - the enzyme is completely washed out or is inactivated. In some cases of very sensitive cells it could be also reasonable to do the stepwise adaption and dilution not only with serum but also in the medium which has been used so far.

Panserin media were developed to support cell growth without the use of serum. Thus the all-round version (Panserin 411) does not contain any growth factors. Studies on the effect of externally added growth factors will be more valid. For cells which are dependent on specific growth factors these factors should be added in the required concentrations.

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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