

**Datasheet****Panserin 411****Serum-free Complete Medium with Insulin**

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

**Product description**

Panserin 411 is a fully defined 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, with additional trace elements, albumin, cholesterol, soy lipids, vitamins and insulin. It does not contain any growth or attachment factors. Protein and animal-derived components < 0.2 % w/v. Hydrolysates < 0.001 % w/v.

**Suitability**

Panserin 411 is a multi-purpose 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 pre-treatment of the cell culture vessels with gelatine, collagen, poly-D-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.

### **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. 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](mailto:info@pan-biotech.com)) or phone +49-8543-601630.

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