

## Datasheet

**Pansera ES****Special Designed for Embryonal Stem Cells**

<b>Product</b>	<b>Description</b>	<b>Catalogue-No.</b>	<b>Size</b>
<b>Pansera ES</b>	<b>Special designed fetal bovine serum for embryonal stem cells</b>	<b>P30-2601 P30-2602</b>	<b>100 ml 500 ml</b>
<b>Pansera ES</b>	<b>Special designed fetal bovine serum for embryonal stem cells, Australia origin</b>	<b>P30-2605 P30-2606</b>	<b>100 ml 500 ml</b>
<b>Pansera ES</b>	<b>Special designed fetal bovine serum for embryonal stem cells, US origin</b>	<b>P30-2608 P30-2609</b>	<b>100 ml 500 ml</b>

**Product description**

Bovine serum is the blood fraction remaining after the natural coagulation of blood, followed by centrifugation to remove any remaining red blood cells. Fetal bovine serum (FBS) is the most widely used serum because it contains high amounts of growth factors.

Pansera ES is a special designed fetal bovine serum for the culture of embryonic stem cells. Compared to conventional FBS with Pansera ES embryonic stem cell cultures show a more constant cell growth, improved cloning efficiency, and a higher amount of undifferentiated clones.

**Storage conditions**

Storage: -20° C  
Stability: 6 years from date of production  
Size: 100 ml, 500 ml, other sizes on request

**Composition**

Pansera ES is produced from bovine serum and contains all components present in serum. A proprietary method developed by PAN Biotech makes this serum especially suited for culture of embryonic stem cells.

**Advantages**

- Reproducible constant cell growth
- Improved cloning efficiency
- More undifferentiated clones
- Permanent strict quality control
- No further batch testing needed

**Instructions for use**

Pansera ES should be thawed at 2-8° C (e.g. overnight). Alternatively, to save time, it may be thawed under controlled conditions in a water bath at 37° C, gently mixing the content from time to time. In this case it is important to closely observe the thawing process and stop when a small amount of ice is still present in the serum. After thawing the serum should be mixed well to get an even distribution of protein and growth factors (do not shake to prevent foaming). Thawed serum may be stored in the dark for up to four weeks at 2-8° C, or can be refrozen in smaller aliquots for later use.

**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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