

**Datasheet****Panserin 293S****Serum-free Medium for HEK-293 Cells in Suspension**

Product	Description	Catalogue-No.	Size
Panserin 293S	Ready-to-use medium for the serum-free cultivation of HEK-293 cells in suspension	P04-710609M P04-710609 P04-71060910	100 ml 500 ml 10 L

**Product description**

Panserin 293S is a complete ready-to-use medium for the serum-free cultivation of HEK-293 cells (Human Embryonic Kidney) in suspension culture.

**Storage conditions**

Storage: 2°-8°C  
Stability: 1 year from date of production  
Size: 100 ml, 500 ml, 10 L, other sizes on request

**Composition**

Based on DMEM/F12 medium additional trace elements, cholesterol and plant hydrolysates have been added. Panserin 293S does not contain any proteins or components of human origin.

**Suitability**

FOR RESEARCH USE ONLY!

Not approved for human or animal diagnostic or therapeutic procedures.

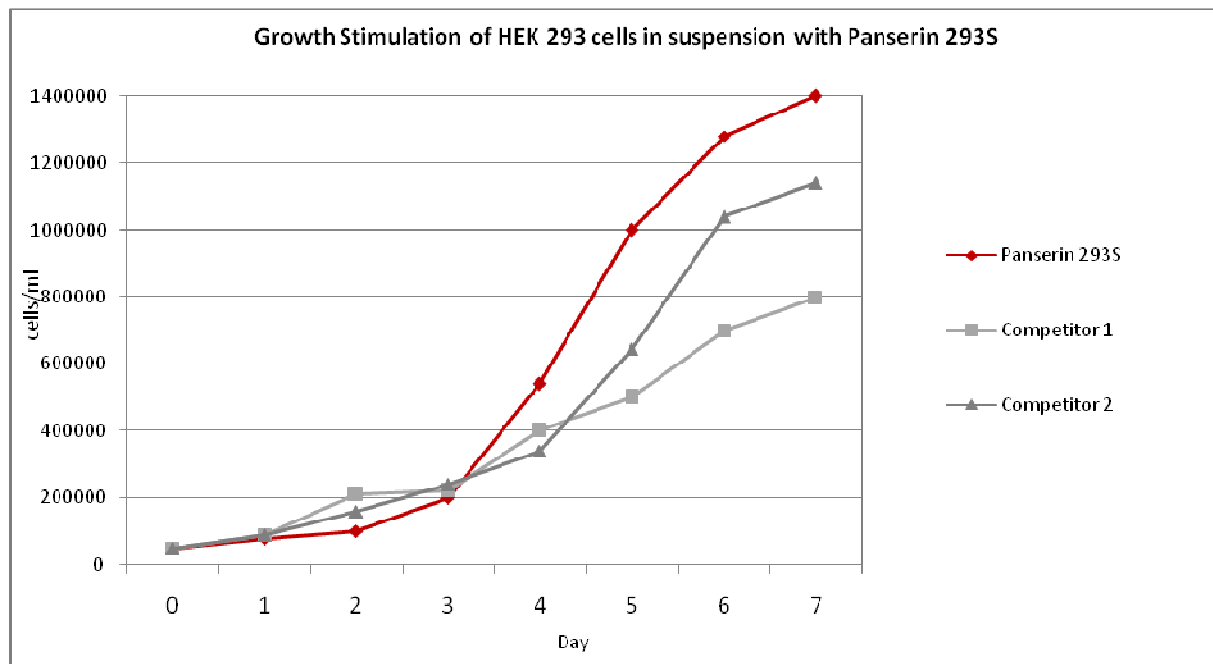
**Special advantages**

Panserin 293S is a particularly enriched medium optimized for the growth of HEK-293 cells in suspension culture and quickly provides high cell densities. Due to its protein-free formulation the purification of final products (recombinant proteins, viruses) from the cell culture is more convenient and economic. Cell clustering – often seen in serum-free suspension cultures – will be reduced significantly in Panserin 293S.

**Instructions for use**

A switch from adherent serum-containing medium to Panserin 293S is often possible without adaptation. For those clones which do not tolerate a direct switch we recommend a primary culture with serum containing medium and a stepwise reduction of serum towards a serum-free cultivation with Panserin 293S.

- Subculture the cells from serum-supplemented medium to Panserin 293S using standard techniques when cells are in the log phase. Count cells and determine viability to seed in prewarmed Panserin 293S.
- Resuspend the cells in pre-warmed Panserin 293S at a density of  $5 \times 10^5$  cells/ml in suspension culture flasks.
- Allow the cells to adapt to Panserin 293S for an additional 4-6 passages. Cells are fully adapted to Panserin 293S when growth rates return to normal densities and viabilities are above 95%.
- Continue to subculture cells in Panserin 293S at a density of  $2-5 \times 10^5$  cells/ml into shaker or spinner flasks.
- HEK 293 cells in Panserin 293S are usually grown at 37°C and 5% CO<sub>2</sub>.



### 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.