

Datasheet - Instructions for Use

Panserin H4000

Protein-free Complete Medium for Hybridoma / Myeloma without Animal Components

Product	Description	Catalogue-No.	Size
Panserin H4000	Animal component, protein-free complete medium for hybridoma and myeloma	P04-714000M P04-714000	100 ml 500 ml

Product description

Panserin H4000 is a protein-free, ready to use medium for an optimized growth of myeloma and hybridoma cell lines in suspension culture for production of monoclonal antibodies. Panserin H4000 is suitable for spinner cultures, roller bottles and tissue culture bioreactors.

Storage conditions

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

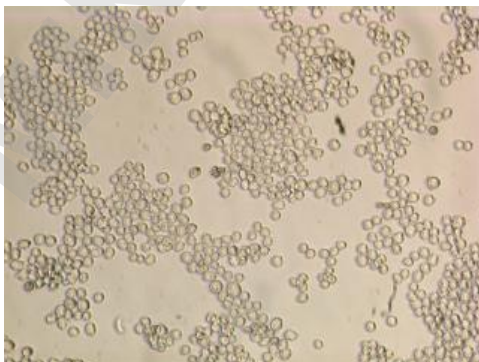
Composition

Panserin H4000 consists of a balanced mixture of salts, amino acids, vitamins, trace elements, hormones and is enriched with selected herbal hydrolysates for an optimized growth of myeloma and hybridoma cell lines. As Panserin H4000 is free of animal or human components it is predestined for the use in sensitive production areas (e.g. production of diagnostic or therapeutic tools) where safety requirements prohibit the use of human or animal components.

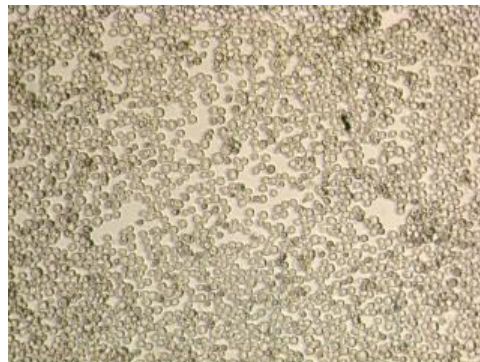
Special Advantages

The formulation of the protein-free Panserin H4000 with a low concentration of plant hydrolysates enables a high cell yield in combination with excellent production rates of monoclonal antibodies. The ready to use protein-free medium allows easy handling and therefore reduces contamination risk and ensures for a simple and economic purification of the final products in downstream processes.

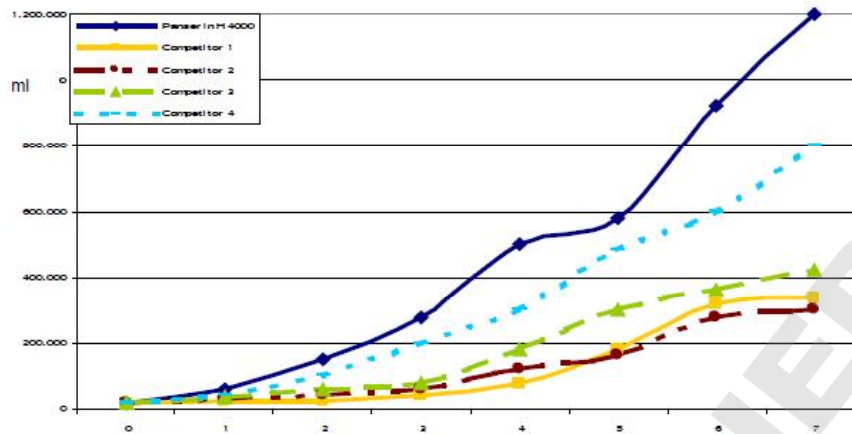
- Ready-to-use formulation
- Easy downstream processing
- High cell density
- Protein- and animal-component free



OX86 in Panserin H4000



SP2/0-Ag14 in Panserin H4000



Typical growth curve of OX86 cells in Panserin H4000 in spinner culture compared to competitors

Instructions for use

Note: most hybridoma cell lines can be directly transferred from a serum containing culture into the protein-free suspension culture. The seeding density should be at least 1×10^5 cells. For cholesterol-dependent cells (e.g. X63AG8.653) use Panserin H8000 (cat. no.: P04-718000).

Direct adaptation to Panserin H4000

- Use cells from a serum-containing culture (e.g. RPMI 1640 with 10% FBS) in the log-phase (80% of maximum cell density).
- Determine cell count and control vitality with trypan blue exclusion staining.
- Seed approx. $1-3 \times 10^5$ cells/ml in pre-warmed Panserin H4000.
- Incubate the cells in an incubator at 37° C and 5% CO₂.
- Once the cells have reached approx. 80% of the maximum density transfer the cells into fresh Panserin H4000. Initially maintain high seeding densities until the cells have adapted to the protein-free culture.
- When the growth rate is comparable to a serum containing culture, the cells should be transferred into fresh Panserin H4000 every 3 to 4 days.
- If the growth rate is not sufficient or the maximal cell densities are not reached perform the described indirect adaption described below.

Indirect adaptation to Panserin H4000

- Use cells from a serum-containing culture (e.g. RPMI 1640 with 10% FCS) in the log-phase (80% of maximum cell density).
- Determine cell count and control vitality with trypan blue exclusion staining.
- Seed approx. $1-3 \times 10^5$ cells/ml in pre-warmed Panserin H4000 with 5% FBS.
- Incubate the cells in an incubator at 37° C and 5% CO₂.
- Once the cells have reached approx. 80% of the maximum density transfer the cells into fresh Panserin H4000 with 2% FBS.
- During the next splitting step use Panserin H4000 with 1% FBS and finally use Panserin H4000 with 0.1% FBS (same steps as mentioned above).

When the growth rate is comparable to the serum-containing culture the cells should be transferred into fresh Panserin H4000 without additional FBS every 3 to 4 days.

Suitability

FOR RESEARCH USE ONLY!

Not approved for human or animal diagnostic or therapeutic procedures.

Technical Support

For technical support or questions 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.