

Technical data sheet

SFA-293S Medium for HEK-293S Cells

AC-LM-0155 500 ml

Storage conditions:	+2 °C - +8 °C
Shelf life:	12 months
Colour:	light red/pink – clear solution
pH:	7,0 – 7,6
Osmolality:	270 – 310 mOsm/kg
Endotoxin:	≤10,0 EU/ml
Sterility tests:	- Bacteria in aerobic and anaerobic conditions - Fungi and yeasts

Definition:

Our SFA-293S medium is a ready-to-use, serum-free medium specifically designed for the cultivation of HEK 293S cells were developed in suspension culture.

It supports cell growth and the Protein expression without the use of animal components.

Composition:

Based on DMEM/F12 medium, additional trace elements, cholesterol and vegetable hydrolysates were added. SFA-293S contains no proteins or components of animal or human origin.

Special advantages:

The SFA-293S Medium is a specially enriched medium optimized for the growth of HEK-293 cells in suspension culture, rapidly delivering high cell densities. Thanks to the protein-free formulation, the purification of end products (recombinant proteins, viruses) from cell culture is easier and more economical. Cell clusters – often observed in serum-free suspension cultures – are significantly reduced by SFA-293S.

Application:

Celltype: HEK 293S-Cells Suspension culture

Usage: - Production of recombinant proteins

- Viral vector production

- Biopharmaceutical research

Instructions for use:

Changing from adherent serum-containing medium to SFA-293S is often possible without adjustment. For clones that cannot tolerate a direct change, we recommend a primary culture with serum-containing medium and a gradual serum reduction towards a serum-free culture with SFA-293S medium.

- Subculture cells from serum-containing medium to SFA-293S using standard trypsinization techniques once cultures reach 90% confluence.
- Resuspend the cells in prewarmed SFA-293S at a density of 5×10^5 cells/ml in suspension culture flasks.
- Allow the cells to adapt to SFA-293S for an additional 4-6 passages. Cells are fully adapted to SFA-293S when growth rates return to normal density and viability is above 95%.
- Subculture the cells in SFA-293S at a density of $2-5 \times 10^5$ cells/mL in shaker or spinner bottles.
- HEK 293 cells in SFA-293S are normally cultured at 37 °C and 5% CO₂.