Data sheet | SciNQX2 medium for suspension cell culture processes

Background

SciNQX2 was developed for improved growth in CHO-K1-based batch as well as fed-batch processes, but enables suspension growth of various rodent as well as human cell lines including Sp2/0-Ag-14, V79, HEK293 and HeLa. The chemically defined, protein-free formulation of SciNQX2 provides all essential nutrients for growth and recombinant protein, exosome, or virus production. SciNQX2 is free of any animal component.

Application note | Characteristics

Cell lines previously cultured in serum-free media are easily adapted by media change.

SciNQX2 is provided as a 0.22 µm sterile filtered as well as sterility tested liquid with an osmolality of 300 – 330 mOsmol·kg^{-1}, a pH of 7.3 ± 0.1 and tested for the absence of mycoplasma.

We recommend the addition of 4 – 6 mM L-glutamine. SciNQX2 contains poloxamer 188 as a default.

Performance

CHO-K1 derived cell lines usually reach 6 – 12·10^{6} cell·ml^{-1} in shaken batch culture systems. For improved recombinant titer as well as growth, our feed solutions SciFY8 or SciFY10 can be applied (recommended: 5 % (v/v); starting at day 2 – 4).

HEK293 and other human cell lines in suspension usually reach 5 – 8·10^{6} cell·ml^{-1} in shaken batch culture systems. For improved recombinant titer as well as growth, our feed solution SciFY7 is recommended at a daily addition of 5 % (v/v) starting at day 2 – 3.

Available products

Art. No.	Components
100128a-500ml	SciNQX2 *w/o L-glutamine, w/o nucleosides* | Basal culture medium
100128b-500ml	SciNQX2 *with L-glutamine, w/o nucleosides* | Basal culture medium
100128c-500ml	SciNQX2 *w/o L-glutamine, with nucleosides* | Basal culture medium
100128d-500ml	SciNQX2 *with L-glutamine, with nucleosides* | Basal culture medium
100204b-500ml	SciFY7 *w/o L-glutamine, with D-(+)-glucose* | *Chemically defined* feed medium
100205b-500ml	SciFY8 *w/o L-glutamine, with D-(+)-glucose* | *Chemically defined* feed medium
100206b-500ml	SciFY10 *w/o L-glutamine, with D-(+)-glucose* | *Chemically defined* feed medium

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