Neo PerfusionCHO, Protein-free Perfusion Medium for CHO Cells, with L-Glutamine, with Ferric Citrate, with HEPES, with Pluronic
#Cat: NB-58-0064 Size: 500ml

General Information

Neo PerfusionCHO medium is a chemically defined medium for maximal nutritious sustenance of CHO cell lines in perfusion bioreactors. With our dedication and experience in cell culture, we developed an advanced formulation for stable and long- term recombinant expression in CHO cell lines.
Neo PerfusionCHO is a serum-free, animal component-free medium with a balanced mixture of components such as Ferric Citrate, yeast extract and PluronicTM which enable maximum performance and high protein yield in CHO cell lines. The ready-to-use medium may be used in fully scalable perfusion bioreactor systems for cost efficient production of biometabolites, proteins and viruses.

Applications:
- For CHO-S, CHO-K1 and CHO-DG44 cells
- For perfusion culture of CHO cells

The following components may optionally be added for improved performance:
- 5 mg/L recombinant Insulin (e.g. Cat.No. NB-58-0012)

Product Specifications

Appearance	Clear orange liquid
Specifications	• Chemically defined • Serum-free • Animal component-free • Protein-free
Storage and shelf life	Store at +2°C to +8°C protected from light. Once opened store at 4°C and use within 6-8 weeks.
Shipping conditions	Ambient
Buffer System	• $NaHCO_3$ • HEPES

Formulation

This formulation is our proprietary composition and has no counterparts either in its composition, or in its action.

Instructions for Use

Adaptation:
For cells grown in serum supplemented medium or other serum-free medium little or no adaptation is needed and may be directly transferred to Neo PerfusionCHO. It is advisable to keep a backup culture in the original media until cells have adapted. If suboptimal growth is observed, after direct adaptation for 3–5 passages, use the sequential adaptation method.

Sequential adaptation:

1. Subculture cells into a 25:75 ratio of supplemented Neo PerfusionCHO to the original media. During the adaptation procedure seed at twice the normal seeding density.
2. Subculture cells when confluency reaches 70–90%. Subculture the cells in fresh pre-warmed 25:75 ratio of supplemented Neo PerfusionCHO to the original media. Once consistent cell growth with high viability has been achieved, passage cells into a 50:50 ratio of supplemented Neo PerfusionCHO to original medium.
3. Repeat step 2 of this procedure, stepwise increasing the ratio of Neo PerfusionCHO to original medium (75:25 followed by 90:10) until the cells are subcultured into 100% Neo PerfusionCHO. Multiple passages at each step may be needed.
4. Continue to monitor and passage cells until consistent growth with high viability is achieved. After several passages in 100% Neo PerfusionCHO, the culture is considered to be adapted.

Precautions and Disclaimer

This product is for research use and further manufacturing only.

Help Needed?

If you have any further questions regarding this product, please do not hesitate to contact our cell culture experts by email (info@neo-biotech.com) or phone (+33 9 77 40 09 09).