

Product Information

CP-CHO Powder Medium

Protein-free CHO Medium with 6 mM L-Glutamine, w/o Ferric Citrate, w/o Sodium Bicarbonate

Cat. No. CP-CHO-P10 (10 liter), CP-CHO-P100 (100 liter), CP-CHO-P500 (500 liter)

General Information

CP-CHO Medium is a chemically defined medium to cultivate CHO cells under serum free conditions. The medium is developed to support growth in perfusion culture. Some components, such as yeast extract are added to enrich the medium for maximum performance.

The medium is free of animal components.

Applications:

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

The following components must be added separately:

- 2 g/l Sodium Bicarbonate
- 2.55 g/L HEPES
- 20 mg/l Ferric Citrate (added separately for improved solubility)

The following components may optionally be added for improved performance:

- 1 g/l Pluronic
- 5 mg/l rh Insulin

Product Specifications

Appearance	white, light yellowish; fine powder
Storage and shelf life	Refer to product label for the expiry date. Store +2°C to +8°C, dry and protected from light.

Instructions for Use: Preparation of liquid medium

1. Fill a clean mixing vessel with 95% of the final volume with +18 °C to +25 °C water for injection (WFI) water. Do not heat the water to protect vitamins and amino acids from degradation.
2. To avoid clumping, add the dry powder (amount per liter see label: in general 15.89 g/L) to the vessel carefully and stir until powder is completely dissolved (> 30 minutes). Make sure that all traces of the powder are added. If necessary, rinse the package with a small amount of WFI.
3. After dissolving the powder add 2.0 g/L of sodium bicarbonate and 2.55 g/L HEPES. Mix until the powder is completely dissolved.
4. OPTIONAL: Add 1.0 g/L Pluronic and stir until Pluronic is completely dissolved (>20 minutes).
5. Add 20 mg/L Ferric citrate to liquid media and stir until Ferric citrate is completely dissolved (>25 minutes). Please check the solubility by sampling of 10 mL media in a glass vessel. Undissolved Ferric citrate forms precipitates. Continue stirring.
6. OPTIONAL: Add 5 mg/L Insulin (recommended stock solution: 5 mg/mL Insulin dissolved in 4 mM HCl) carefully to liquid media and stir for 20 minutes.

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7. Adjust the pH to 7.0 – 7.6 by adding 2 M NaOH and stir for 20 min.
8. Add WFI water up to the final volume.
9. For sterile filtration use a membrane filter with a pore size of 0.22 to 0.1 µm.
10. Sterile filter medium under aseptic conditions into sterile containers.
11. Store dark and cool at +2 °C to +8 °C until use.

Formulation

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

Precautions and Disclaimer

For in vitro laboratory use or further manufacturing only. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Help Needed?

If you have any further questions regarding this product, please do not hesitate to contact our cell culture experts by email (techservice@capricorn-scientific.com) or phone (+49 6424 944640).

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