

Recombinant Human Erythropoietin-alpha (EPO-a)

Certificate of Analysis and Data Sheet

➤ Source: Chinese Hamster Ovary Cells (CHO).	➤ Catalog No. CTK-201
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➤ **Description :**

Recombinant Human Erythropoietin-alpha is produced in Chinese hamster ovary (CHO) cells by recombinant DNA technology is a single, polypeptide chain containing 165 amino acids and having a predicted molecular mass of 21,000 Dalton and apparent glycosylated molecular mass of 30,400 Dalton. EPO-alpha is purified by proprietary chromatographic techniques.

➤ **Physical Appearance:**

Sterile Filtered White Lyophilized (freeze-dried) powder.

➤ **Formulation:**

Recombinant Erythropoietin-alpha was lyophilized after extensive dialysis in 5.8mg sodium citrate, 5.8mg sodium chloride and 0.06mg citric acid.

➤ **Solubility:**

It is recommended to reconstitute the lyophilized EPO-a in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

➤ **Stability:**

Lyophilized Epoetin Alfa although stable at room temperature for 3 weeks, should be stored desiccated below -18 C. Upon reconstitution EPO should be stored at 4 C between 2-7 days and for future use below -18 C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please avoid freeze-thaw cycles.

➤ **Purity:**

Greater than 98.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Anion-exchange FPLC.
- (c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel.

➤ **Dimers and aggregates:**

Less than 1% as determined by silver-stained SDS-PAGE gel analysis.

➤ **Biological Activity:**

This Erythropoietin is fully biologically active when compared to standard. The Specific Activity was measured by Normocyth-aemic mice and was found to be 120,000IU/mg.

➤ **Endotoxin:**

Less than 0.1 ng/μg (IEU/μg) of Epoetin Alfa .

➤ **Usage:**

This material is offered for research, laboratory or further evaluation purposes.