

Data Sheet

CellGenix® GMP Recombinant Human Epidermal Growth Factor (rh EGF)

Order No.: 1016-050 (50 µg), 1016-1000 (1000 µg)

Product Characteristics

Source	<i>E. coli</i>
Description	Human EGF, accession # P01133, Asn971-Arg1023 N-terminal Met and C-terminal 6xHis-tag Molecular mass 7.2 kDa
Formulation	Lyophilized from a 0.2 µm-filtered solution containing 25 mM sodium acetate, pH 5.0
Intended use	For clinical <i>ex vivo</i> use. Not intended for human <i>in vivo</i> application.

Quality Parameters

Identity	Confirmed by DNA-sequencing of the expression plasmid in end-of-production cells and N-terminal sequencing of the final product
Activity	0.5 – 2.0 x 10 ⁶ IU/mg calibrated against NIBSC #91/530 Measured in a cell proliferation assay using an EGF-dependent cell line, Balb/3T3
Purity	≥ 97 %, as determined by RP-HPLC
Product-related proteins	≤ 5 % as determined by RP-HPLC
Host-cell DNA	≤ 200 ng/mg, as determined with a fluorimetric assay
Host-cell protein	≤ 1.0 µg/mg, as determined by ELISA
Endotoxin	≤ 50 EU/mg, as determined by LAL gel clot test according to Ph. Eur. and USP
Sterility	Sterility test according to Ph. Eur. and USP of the vial product (direct inoculation)
Mass per vial	50 µg: 43 - 57 µg, 1000 µg: 900 - 1100 µg as determined by spectrophotometrical measurement
Animal-derived component-free	ADCF Level 2: The final product contains neither animal- nor human-derived materials. ADCF Level 2 cytokines are produced in our dedicated animal-free facility. No animal-derived components are used throughout the complete production process. All ADCF Level 2 cytokines are produced in <i>E. coli</i> .

Shipment & Storage

Transport	Ambient temperature. Please refer to Technote (www.cellgenix.com)
Expiry	Minimum 6 months from date of shipping
Storage & Stability	Store lyophilized cytokine at -20°C to -80°C. Store a 250 µg/ml cytokine solution <ul style="list-style-type: none">• 4 weeks at 2°C to 8°C under sterile conditions after reconstitution. Store in the original container.• 4 months at -20°C to -80°C under sterile conditions after reconstitution. Store in 60 µl aliquots in polypropylene cryogenic vials. Avoid repeated freeze/thaw cycles.

Handling Instructions

Reconstitution	Recommended in 0.2 % acetic acid to a final concentration of 250 µg/ml for 50 µg vials or 500 µg/ml for 1000 µg vials.
Dilution	Recommended in CellGenix® serum-free media. For dilution with protein free medium, a carrier protein (0.1-1 % albumin or 1-10 % appropriate serum) has to be included. Failure to dilute product according to these instructions may result in loss of activity.

Quality Statement

This product is manufactured, tested and released in compliance with the relevant GMP-guidelines. USP chapter <1043> has been considered in the design of this product. This product is compliant with Ph. Eur. general chapter 5.2.12.