

Data Sheet: CellGro® / CellGenix™
GMP Recombinant Human Interleukin-6 (rh IL-6)
Order No.: 1004-050

Source	A DNA sequence encoding the mature IL-6 protein (Hirano, T. et al., 1986, Nature 324:73-6) was expressed in <i>E. coli</i>
Molecular mass	The methionyl form of the <i>E. coli</i> expressed mature human IL-6 contains 191 amino acid residues (including a C-terminal His6-tag) and has a molecular mass of 21 kDa
Identity	Confirmed by DNA-sequencing of the expression plasmid in end of production (EOP)-cells and N-terminal sequencing of the final product
Purity	≥ 97%, as determined by SDS-PAGE (under reducing and non-reducing conditions) and visualized by Coomassie staining
Endotoxin level	< 1000 EU/mg, as determined by LAL gel clot test according to Ph.Eur.; typically < 100 EU/mg
Residual host-cell DNA	≤ 200 ng/mg, as determined by a fluorimetric assay
Activity	0.8x10 ⁸ – 2.5x10 ⁸ IU/mg calibrated with the 1 st International Standard NIBSC, # 89/584 Measured in a cell proliferation assay using a mouse B-cell hybridoma line, B9. (Aarden et al., 1987, Eur. J. Immunol. 17: 1411-16)
Sterility	Sterility test according to Ph.Eur. of the vial product (direct inoculation)
Formulation	Lyophilized from a 250 µg/ml, 0.2µm sterile-filtered solution in PBS without any carrier materials and preservatives
Amount per vial	50 ± 7.5 µg, as determined by spectrophotometrical measurement at 280 nm using PBS as reference ($A_{280} = 0.47$ for a concentration of 1 mg/ml IL-6 in PBS)
Transport	Ambient temperature
Storage at	-20°C or below. Avoid repeated freeze-thaw cycles
Shelf life	Minimum 6 months from date of shipping
Intended use	For clinical ex vivo use. Not intended for human in vivo application
Quality statement	This product is manufactured, tested and released in compliance with the relevant GMP-guidelines. No animal- or human-derived materials were used during manufacturing. USP chapter <1043> “ancillary materials for cell, gene, and tissue-engineered products” has been considered in the design of this product.

Manufacturer

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