



Data Sheet: CellGro® / CellGenix™
Recombinant Human Interleukin 6 (IL-6)
ex vivo grade - Order No.: 1004

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>
Raw Material Statement	Produced without the use of animal derived components (ADCF)
Production	Produced under GMP conditions
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 21.9 kDa
Identity	Confirmed by DNA-sequencing of the expression plasmid in 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	< 0.1 ng per 1 µg (< 1000 EU/mg), as determined by LAL gel clot test according to Eur.Pharm.; typically < 0.01 ng per 1 µg (< 100 EU/mg)
Residual Host-Cell DNA	≤ 200 ng per 1 mg, as determined by a fluorimetric assay
Activity	Measured in a cell proliferation assay using a mouse B-cell hybridoma line, B9. (Aarden et al., 1987, Eur. J. Immunol. 17: 1411-16) ED50 is typically 1 – 10 µg/ml (2.5×10^8 – 0.8×10^8 IU/mg) calibrated with the 1 st International Standard NIBSC, # 89/584
Sterility	Sterility test according to Eur.Pharm. of the vialled 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 ± 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 to -80°C. Avoid repeated freeze-thaw cycles
Shelf life	2 years from date of production Minimum 6 months from date of shipping
Intended Use	For research or clinical ex vivo cell culture use only. Not intended for human in vivo application.

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