



Data Sheet: CellGro® / CellGenix™
Recombinant Human Interleukin 3 (IL-3)
ex vivo grade - Order No.: 1002

Source	A DNA sequence encoding the mature IL-3 protein was expressed in <i>E. coli</i>
Raw Material Statement	n.a.
Production	Produced under GMP conditions
Molecular Mass	The methionyl form of the <i>E. coli</i> expressed mature human IL-3 contains 133 amino acid residues and has a molecular mass of 15 kDa.
Identity	Confirmed by RP-HPLC
Purity	≥ 97%, as determined by SDS-PAGE (under reducing and non-reducing conditions) and visualized by Silver 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	n.a.
Activity	Measured in a cell proliferation assay using a human factor-dependent cell line, TF-1 (Kitamura, T. et al., 1989, J. Cell Physiol. 140:323-334). ED50 is typically 0.05 – 0.5 ng/ml (5×10^6 – $0,5 \times 10^6$ IU/mg) calibrated with the 1 st International Standard NIBSC, # 91/510
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.
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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