



**Data Sheet: CellGro® / CellGenix™**  
**Recombinant Human Interleukin 4 (IL-4)**  
**research grade - Order No.: 1403**

Source	A DNA sequence encoding the mature IL-4 protein was expressed in <i>E. coli</i> .
Raw Material Statement	n.a.
Production	Produced in a GMP environment.
Molecular Mass	The methionyl form of the <i>E. coli</i> expressed mature human IL-4 contains 130 amino acid residues and has a molecular mass of 14 kDa.
Purity	≥ 95%, as determined by SDS-PAGE.
Endotoxin Level	< 0.1 ng per 1 µg (< 1000 EU/mg), as determined by LAL gel clot test.
Activity	Measured in a cell proliferation assay using a human factor-dependent cell line, TF-1.  ED50 is typically 0.05 – 0.2 ng/ml (Activity: > 5x10 <sup>6</sup> IU/mg) calibrated with the 1 <sup>st</sup> International Standard NIBSC, # 88/656
Sterility	Sterility test of the vial product (direct inoculation).
Formulation	Lyophilized from a protein solution in PBS without any carrier materials and preservatives.
Amount per Vial	50 µg or 10 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
Intended Use	<b>For research use only.</b> <b>Not intended for diagnostic or therapeutic use.</b>

Manufacturer CellGenix Technologie Transfer GmbH  
Am Flughafen 16 – 79108 Freiburg – Germany  
Tel: +49 761 88889 – 0  
Fax: +49 761 88889 – 830  
www.cellgenix.com - info@cellgenix.com