



Data Sheet: CellGro® / CellGenix™
Recombinant Human Granulocyte-Macrophage
Colony Stimulating Factor (GM-CSF)
research grade - Order No.: 1412

Source	A DNA sequence encoding the mature GM-CSF 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 GM-CSF contains 128 amino acid residues and has a molecular mass of 14.5 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 0.01 – 0.1 ng/ml (Activity: > 5x10 ⁶ IU/mg) calibrated with the 1 st International Standard NIBSC, # 88/646
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	For research use only. Not intended for diagnostic or therapeutic use.

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