



Data Sheet: CellGro® / CellGenix™
Recombinant Human
basic Fibroblast Growth Factor (bFGF)
ex vivo grade - Order No.: 1008

Source	A DNA sequence encoding the mature bFGF protein was expressed in <i>E. coli</i>
Raw Material Statement	USP grade Heparin-Sepharose is used in the purification process. No other animal derived components are used during the production and purification process.
Production	Produced under GMP conditions
Molecular Mass	The methionyl form of the <i>E. coli</i> expressed mature human bFGF contains 161 amino acid residues (including a C-terminal His6-tag) and has a molecular mass of 18 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 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	≤ 200 ng per 1 mg, as determined by a fluorimetric assay
Activity	Measured in a cell proliferation assay using a bovine factor-dependent cell line, FBHE. ED50 is typically 0.25 – 2.5 ng/ml (Activity: > 0.4x10 ⁶ IU/mg) calibrated with the 1 st International Standard NIBSC, # 90/712
Sterility	Sterility test according to Eur.Pharm. of the vialled product (direct inoculation)
Formulation	Lyophilized from a 0.2 µm -filtered solution in 3xPBS containing 30 mM K ₂ HPO ₄ , 450 mM NaCl, 2 mM Gluthatione (reduced), 0.1% Tween-20
Amount per Vial	50 ± 5 µg, as determined by spectrophotometrical measurement at 280 nm using formulation buffer as reference (A ₂₈₀ = 0.88 for a concentration of 1 mg/ml bFGF in formulation buffer)
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.
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