

## **Data Sheet**

## CellGenix® GMP Recombinant Human Interleukin-7 (rh IL-7)

Order No.: 1010-050 (50 µg)

#### **Product Characteristics**

Source E. coli

**Description** Human Interleukin-7, accession # P13232, Asp26-His177

N-terminal Met and C-terminal 6xHis-tag

Molecular mass 18.3 kDa

Formulation Lyophilized from a 0.2 µm-filtered solution containing 25 mM sodium phosphate,

150 mM sodium chloride and 0.1 % polysorbate 20, pH 7.5.

**Intended use** For further manufacturing use.

### **Quality Parameters**

component-free

**Identity** Confirmed by DNA-sequencing of the expression plasmid in end-of-production cells

and N-terminal sequencing of the final product

Activity 50 - 200 x 10<sup>6</sup> IU/mg calibrated against NIBSC #90/530

Measured in a cell proliferation assay using an IL-7-dependent cell line, IxN/2b

Purity ≥ 97 %, as determined by SDS-PAGE (under reducing and non-reducing conditions,

visualized by Coomassie staining)

**Product-related proteins** < 10 % oligomers as determined by SDS-PAGE (under non-reducing conditions,

visualized by Coomassie staining)

Host-cell DNA ≤ 200 ng/mg, as determined with a fluorimetric assay

Host-cell protein  $\leq 1.0 \,\mu\text{g/mg}$ , as determined by ELISA

Endotoxin ≤ 25 EU/mg, as determined by LAL gel clot test according to Ph. Eur. and USP

Sterility Sterility test according to Ph. Eur. and USP of the vialed product

Mass per vial 43 - 57 µg, as determined by spectrophotometrical measurement

Animal-derived ADCF Level 2: The final product contains neither animal- nor human-derived

materials. ADCF Level 2 cytokines are produced in our dedicated animal-free facility.

No animal-derived components are used throughout the complete production process.

All ADCF Level 2 cytokines are produced in E. coli.





### Shipment & Storage

**Transport** Ambient temperature. Please refer to Technote (www.cellgenix.com)

Shelf life Minimum 6 months from date of shipping

Storage & Stability Store lyophilized cytokine at -20 °C to -80 °C.

Store a 250 µg/ml cytokine solution

• 4 weeks at 2 °C to 8 °C under sterile conditions after reconstitution. Store in the original container.

• 4 months at -20 °C to -80 °C under sterile conditions after reconstitution. Store in 60 μl aliquots in polypropylene cryogenic vials.

Avoid repeated freeze/thaw cycles.

## **Handling Instructions**

Reconstitution Recommended in sterile water to a final concentration of 250 µg/ml.

Dilution Recommended in CellGenix® serum-free media. For dilution with protein free

medium, a carrier protein (0.1–1 % albumin or 1–10 % appropriate serum) has to be included. Failure to dilute product according to these instructions may result in loss

of activity.

# **Quality Statement**

This product is manufactured, tested and released in compliance with the relevant GMP-guidelines. No animal- or human-derived components are present in the final product and no animal- or human-derived materials were used in production (ADCF Level 2). USP chapter <1043> has been considered in the design of this product. This product is compliant with Ph. Eur. general chapter 5.2.12 and ISO Technical Standard 20399.