



Meridian

Life Science,® Inc.

Innovative Solutions. Trusted Partner.®

5171 Wilfong Road
Memphis, TN 38134

USA

Telephone: 901-382-8716

Fax: 901-333-8223

Email: info@meridianlifescience.com

www.MeridianLifeScience.com

CERTIFICATE OF ANALYSIS

Important Note: Centrifuge before opening to ensure complete recovery of vial contents.

Catalog #: A42204H **Lot #:** 11G19515

Description: Human IL-4, Recomb.
Human Interleukin 4 (IL-4), Recombinant

Recombinant Human Interleukin-4 is a single, non-glycosylated polypeptide chain containing 130 amino acids and having a molecular weight of 15,000 Da. The sequence of the first five N-terminal amino acids was determined to be Met-His-Lys-Cys-Asp. Contains less than 1% dimers and aggregates.

Source: *E. coli*

Format: Purified, Lyophilized
Reconstitute using sterile deionized water to a concentration $\geq 100 \mu\text{g/mL}$. Further dilutions can be made in other aqueous buffers.

Purification: $> 97\%$ pure (RP-HPLC and SDS-PAGE). Purified by chromatographic techniques.
Product is sterile filtered.

Concentration: 1 mg/mL (OD280nm, $E^{0.1\%} = 0.594$) (prior to lyophilization).

Buffer: Lyophilized from Phosphate Buffered Saline (PBS), pH 7.4.

Preservative: None

Applications: The ED_{50} as determined by dose-dependent stimulation of TF-1 cells is $< 0.2 \text{ ng/mL}$, corresponding to a specific activity of $5 \times 10^6 \text{ IU/mg}$. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

Storage: The lyophilized product, though stable for 3 weeks at room temperature, is best stored at -20°C . After reconstitution, short term (up to 1 week) store at $2-8^\circ\text{C}$. Long term, add 0.1% HSA or BSA, aliquot and store at -20°C . Avoid multiple freeze/thaw cycles.

Inactivation: Not Applicable

Signature

16 July 2015

Date

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY