



# Meridian

## Life Science,® Inc.

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### CERTIFICATE OF ANALYSIS

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

**Catalog #:** A42202H **Lot #:** 4H22211

**Description:** Human IL-2, Recomb.  
Human Interleukin 2 (IL-2), Recombinant

Recombinant Human IL-2 is a single non-glycosylated mutein (variant form) of human IL-2 polypeptide chain containing 134 amino acids and having a molecular weight of 15,517 Da. The sequence of the first five N-terminal amino acids was determined to be Met-Ala-Pro-Thr-Ser. Recombinant Human IL-2 has a Ser substitute for Cysteine at position 126.

**Source:** *E. coli*

**Format:** Purified, Lyophilized **Exp. Date:** Not Assigned  
Reconstitute using 20 mM acetic acid to a concentration  $\geq 100$   $\mu\text{g/mL}$ . Further dilutions can be made in other aqueous buffers.

**Purification:**  $> 98\%$  pure (RP-HPLC and SDS-PAGE). Purified by chromatographic techniques.  
Product is sterile filtered.

**Concentration:** 1.1 mg/mL (OD280nm,  $E^{0.1\%} = 0.614$ ) (prior to lyophilization).

**Buffer:** Lyophilized from water containing 0.17 mg/mL Sodium Monobasic and 0.89 mg/mL Dibasic Sodium Phosphate Buffer, pH 7.5.

**Preservative:** None

**Applications:** The  $ED_{50}$  as determined by the dose-dependent stimulation of mouse CTLL-2 cells is less than 0.0645 ng/mL, corresponding to a specific activity of 16.9 MIU/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  $-20^{\circ}\text{C}$ . 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  $-20^{\circ}\text{C}$ . Avoid multiple freeze/thaw cycles.

**Inactivation:** Not Applicable

Signature

12 September 2013

Date

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**