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## Certificate of Analysis

### IGF-I

(recombinant protein expressed in *E. coli*)

Catalog # 01-208

Lot # 31958

**Product Description:** Recombinant human IGF-I (E3R) expressed in *E.coli*. IGF-I (E3R) (insulin-like growth factor I) is a 70 amino acid analog of human IGF-I with the substitution of an Arg for Glu at position 3. IGF-I (E3R) is significantly more potent than IGF-I *in vitro* and *in vivo* because IGF-I (E3R) has decreased binding to all IGF binding proteins.

**Purity:** >95% as determined by SDS-PAGE and HPLC analysis. MW = 7.6kDa.

**Sterility:** Sterilized through a 0.2 $\mu$  membrane filter and packaged aseptically.

**Formulation:** 25 $\mu$ g of lyophilized powder. Lyophilized from 100 $\mu$ l 0.1M acetic acid.

**Storage and Stability:** Lyophilized: 2 years at -20°C. Rehydrated: 6 months at -20°C. Rehydrated solutions can be stored for 6 months at -20°C without detectable loss of activity. More dilute solutions stored at -20°C are less stable. Aliquot to avoid repeated freezing and thawing.

**Rehydration:** In 100mM acetic acid or 10mM HCL. When diluting to concentrations of <1mg/ml, a carrier protein should be added to minimized adsorption of peptide to plastic or glass surfaces. Use RIA grade bovine serum albumin at concentrations between 0.1 and 1mg/ml. A carrier protein is not necessary for use in the presence of fetal bovine serum in cell culture.

**FOR IN VITRO RESEARCH USE ONLY  
NOT FOR USE IN HUMANS OR ANIMALS**

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### Quality Control Testing and Research Applications

**Biological Activity:** Stimulation of protein synthesis in L6 myoblasts: ED<sub>50</sub> = 19.9ng/ml.

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