

Insulin Human, Yeast

Description: Insulin Human Recombinant produced in Yeast is a two chain, glycosylated polypeptide chain containing 51 amino acids and having a molecular mass of 5807 Dalton. Zinc content was found to be 0.4%. Insulin is purified by proprietary chromatographic techniques.

Catalog #: CYP5-621

For research use only.

Source: *Saccharomyces cerevisiae*.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Purity: Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Formulation:

The protein was lyophilized from 50mM Sodium Chloride solution.

Stability:

Lyophilized Insulin should be stored at 4°C. Upon reconstitution Insulin should be stored at -20°C to -80°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

It is recommended to reconstitute the lyophilized Insulin in PBS pH-7.5.

Introduction:

Insulin decreases blood glucose concentration. It increases cell permeability to monosaccharides, amino acids and fatty acids. It accelerates glycolysis, the pentose phosphate cycle, and glycogen synthesis in liver.

Biological Activity:

27 units/mg. Insulin has been evaluated in cell culture (Human Foreskin Fibroblasts). The effective concentration range for use in defined media is 1-5 µg/ml. However, the optimum concentration range for a particular application must be determined by the investigator.

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