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## Product Data Sheet

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Product Name: Insulin Human

Cat. No.: GP20673

Batch No.: 1

### Product Data

Purity	Greater than 98.0% as determined by RP-HPLC analysis.	Source	Escherichia Coli.
Physical Appearance	White lyophilized (freeze-dried) powder.	Shipping Condition	Store at -20°C, protect from light
Solubility	It is recommended to reconstitute the lyophilized Insulin in sterile 0.005N HCl not more than 1 mg/ml.		
Formulation	The protein was lyophilized from a concentrated (1mg/ml) solution with no additives.		

### 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

The Biological Activity was determined to be 28 units/mg.

### Stability

Freeze dried insulin is recommended to be used within 6 months when stored at 2-8 °C, and within 1 year when stored at -20 °C. Storage method and expiration date of reserve solution: When stored at -80 ° C, please use within 6 months; when stored at -20 ° C, please use within 1 month.

### Background

Insulin Human Recombinant produced in E.Coli is a two chain, non-glycosylated polypeptide chain containing 51 amino acids and having a molecular mass of 5807 Dalton. Insulin is purified by proprietary chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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