



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Porcine Insulin

Catalog No.
228-10965

Source
Porcine Pancreas.

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.

Description:

Insulin Porcine is a two chain, glycosylated polypeptide chain containing 51 amino acids and having a molecular mass of 5777 Dalton.

The α and β chains are joined by two interchain disulfide bonds. The α chain contains an intrachain disulfide bond. Insulin regulates the cellular uptake, utilization, and storage of glucose, amino acids, and fatty acids and inhibits the breakdown of glycogen, protein, and fat. Insulin Porcine is purified by proprietary chromatographic techniques.

Formulation:

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

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder

Solubility:

It is recommended to reconstitute the lyophilized Insulin Porcine in sterile 18M Ω -cm H₂O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.

Purity:

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

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Stability:

Lyophilized Insulin Porcine although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Insulin Pig should be stored at 4°C between 2-7 days and for future use below -18°C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please prevent freeze-thaw cycles.

Biological Activity

26 units/mg.

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