Insulin Recombinant Human
Cell Culture Tested
Product Code: TC190
Molecular Weight: 5.802 kDA
Cas No: 11061-68-0

Product Description:
Insulin, a two-chain polypeptide of approximately 5800 Dalton, is produced by β- cells of the islets of Langerhans of the pancreas. It consists of two chains α and β, joined by two interchain disulphide bonds. It has a profound effect in the metabolism of carbohydrates, fats and proteins, and inhibits the breakdown of glycogen, protein and fat.
In cell culture, insulin has been considered as a key factor in the growth regulation and differentiation of cells, and hence it is often included as a media supplement. It also aids as a survival promoting factor in cell culture media. Recombinant human insulin is commonly used as an additive in serum free media.

Quality Control:
Appearance
White to off-white to brown powder.
Solubility
Clear colourless to slight yellow solution at 1mg/ml in 10mM hydrochloric acid
Assay
NLT 97.00%
Activity in IU/mg
26.0 IU/mg
Cell Culture Test
Passes

Storage and Stability:
The powdered form should be stored at -20°C. Powder is stable at room temperature upto 3 weeks. For long term storage, powder should be stored at -20°C.
Stock solution should be stored frozen at -20°C in single use aliquote. Repeated freezing and thawing should be avoided.

Disclaimer:
User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia™ publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia™ Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal diagnostic or therapeutic use but for laboratory, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.