

Product: Insulin, human, recombinant
Catalog #: 11-INSULINH
Amount: 25 mg

DESCRIPTION: Recombinant human Insulin (rHuInsulin)
rHuInsulin is a two chain, non-glycosylated polypeptide chain containing 51 amino acids and having a molecular mass of 5807 Dalton.
rHuInsulin is purified by proprietary chromatographic techniques.

SOURCE: *Escherichia coli* expression system

MOLECULAR WEIGHT: 5.8 kDa

PURITY: > 98%, as determined by:
(a) Analysis by RP-HPLC.
(b) Anion-exchange FPLC
(c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel

ENDOTOXIN: Less than 0.1 ng/μg (IEU/μg) of rHuInsulin

DIMERS & AGGREGATES: Less than 1% as determined by silver stained SDS-PAGE gel analysis

PROTEIN CONTENT: Protein quantitation was carried out by 2 independent methods:
- UV spectroscopy at 280 nm using the absorbency value of 0.614 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENcomputer analysis program of protein sequences
- Analysis by RP-HPLC, using a standard solution of HuInsulinas a Reference Standard

FORM: Purified, lyophilized

CONCENTRATION: 0.1 mg/ml

STORAGE: -20°C (aliquot), avoid freezing and thawing cycles

BIOLOGICAL ACTIVITY: rHuInsulin is fully biologically active when compared to World Health Organization (WHO) reference standard which is 28 units/mg.

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