

## Technical Information

### Recombinant Human Insulin Solution, 10mg/ml Sterile filtered

#### Product Code: TCL1035

##### Application:

**Molecular Weight:** 5.802kDa

**Molecular Formula:** C<sub>257</sub>H<sub>383</sub>N<sub>65</sub>O<sub>77</sub>S<sub>6</sub>

**CAS No.:** 11061-68-0 Insulin, a two-chain polypeptide of approximately 5802 Daltons, 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 disulfide 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.

TCL1035 is sterile filtered recombinant human insulin solution formulated to contain 10mg recombinant human insulin per ml.

## Quality control

##### Appearance

Colourless, clear solution.

##### Sterility

No bacterial or fungal growth is observed after 14 days of incubation, as per USP specification (Direct inoculation).

##### Performance Test

Complies

## Storage and Shelf Life

Store at 2 - 8°C away from bright light.

Shelf life is 18 months.

Use before expiry date given on the product label.

## Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
- **Central Drug House Pvt. Ltd.** reserves the right to make changes to specifications and information related to the products at any time.
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- Do not use the products if it fails to meet specifications for identity and performance parameters.