

## Product Information

Insulin human recombinant Solution (5 mg/ml)  
Cat. No. INS-K (5 ml)

### General Information

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Two-chain polypeptide hormone produced by the  $\beta$ -cells of pancreatic islets. Its molecular weight is ~5800 Da. The  $\alpha$  and  $\beta$  chains are joined by two interchain disulfide bonds. The  $\alpha$  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.

This chemically defined solution is suitable for cell culture. The human insulin was expressed in *Saccharomyces cerevisiae*.

Applications:

- Additional component for cell culture media
- Applicable for batch, fed-batch & perfusion culture addition

### Product Specifications

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Appearance	Clear solution
Recommended concentration for media systems	5 mg/L
Storage and shelf life	Store at +2°C to +8°C protected from light. Once opened store at 4°C and use within 2-4 weeks.
Shipping conditions	Ambient

### Formulation

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Components	Concentration mg/L
Insulin	5000.00

### Precautions and Disclaimer

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This product is for research use and further manufacturing only.

### Help Needed?

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If you have any further questions regarding this product, please do not hesitate to contact our cell culture experts by email ([techservice@capricorn-scientific.com](mailto:techservice@capricorn-scientific.com)) or phone (+49 6424 944640).