

Version : 02  
Update : 05/08/2023

## CERTIFICATE OF ANALYSIS

### Product Information

Product Name:	Insulin, Bovine
Cat. No.:	Z03735
Lot No.:	E2307003
Size	Specified on product label
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution in 10 mM Citric acid, pH 2.0-3.0.
Reconstitution	Before opening, centrifuge the vial briefly to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH <sub>2</sub> O up to 1 mg/ml.
Storage	Upon receiving, the lyophilized product remains stable for up to 6 months at lower than -70 °C. Upon reconstitution, the product is stable for up to 1 week at 4 °C or up to 3 months at -20 °C. Avoid repeated freeze-thaw cycles by making single-use aliquots before the solution is stored at -20 °C.

### Quality Control

Test Items	Specifications	Results
Appearance	White Freeze-dried Powder	Pass
Purity	$\geq 95\%$ as analyzed by SDS-PAGE	Pass
Endotoxin Level	$< 0.1$ EU/ $\mu$ g of protein by gel clotting method	Pass
Biological Activity	Measured in a cell proliferation assay using human MCF7 cells, the ED <sub>50</sub> for this effect is less than 1.00 $\mu$ g/ml.	Pass

Date: 08/03/2023

Approved by: *Dandan Yao*

Quality Department

**For research use only. Not intended for human and animal therapeutic or diagnostic use.**

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