



CERTIFICATE OF ANALYSIS

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1. Identification

Catalogue Number: I666550

CAS Number: 11061-68-0

Product: Insulin (Human)

Synonym: 8A-L-Threonine-10A-L-isoleucine-30B-L-threonine-Insulin (ox); 3,4,44,45,90,91-Hexathia-8,11,14,17,20,23,26,29,32,35,38,41,48,51,54,57,60,63,66,69,72,75,78,81,84,86-hexacosazabicyclo[72.11.7]nonacontane Cyclic Peptide deriv.; 1: PN: WO2010088276 SEQID: 11 Claimed Protein; 6: PN: WO0050456 SEQID: 1-19 Claimed Protein; Actrapid; Actrapid HM; Biohulin; H-Tronin; Human Protaphane; Human insulin; Humulin; Humulin R; Humulin S; IN 105; Incelligent AF

Structure:

Structure Not Available

Molecular Formula:

C₂₅₇H₃₈₃N₆₅O₇₇S₆

Molecular weight:

5807.57

Source of Product:

N/A

Solubility:

Aqueous Acid (Slightly),
Water (Slightly)

Lot Number: 21-JPO-108-1

Purity: N/A

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: -20°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Off-White Solid	White Solid
HPLC Purity	Report Result	99.63% (215 nm)
MS (MALDI)	Conforms to Structure	Conforms

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By
Swathi Reddy

Reviewed By
Toni Rantanen

C of A Approved By
Chanell Chu

Test Date
11/17/2021

Retest Date
11/15/2025