

## Certificate of Analysis

Date of Testing: 2023-12-15 10:27:52  
Date of Next Testing: 2025-12-04 10:27:52  
Product Name: **Leupeptin hemisulfate salt**  
CAS Number: 103476-89-7  
Specifications & Purity:  $\geq 90\%$ (HPLC)  
Lot #: C2226337  
SKU #: **L111765**  
**Analysis:** **304867**  
Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Water by Karl Fischer	0-12 (%)	3.11 %
Purity(HPLC)	90-100 (%)	94.30000 %
Chloride Content	0-1 (%)	0.51 %
Sulfate(SO42-)	7-12 (%)	8.11 %
Peptide content(Amino Acid Analysis)	80-100 (%)	89.00 %
Appearance (L111765)	White Solid	White Solid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility,Colorless to Faint Yellow,Clear ,50 mg/ml, H2O	pass	Pass
Test as a protease inhibitor	Pass	Pass



John Su  
QA & QC Manager