

## Certificate of Analysis

Date of Testing: 2024-05-20 16:20:21  
Date of Next Testing: 2026-05-10 16:20:21  
Product Name: **Leupeptin hemisulfate salt**  
CAS Number: 103476-89-7  
Specifications & Purity:  $\geq 90\%$ (HPLC)  
Lot #: H2205277  
SKU #: **L111765**  
Version: **0**  
Analysis #: **360090**  
Storage Temperature: Store at  $-20^{\circ}\text{C}$

Parameter	Limit Values	Result
Water by Karl Fischer	0-12 (%)	6.15 %
Purity(HPLC)	90-100 (%)	91.18000 %
Chloride Content	0-1 (%)	0.47 %
Sulfate(SO <sub>4</sub> <sup>2-</sup> )	7-12 (%)	9.47 %
Peptide content(Amino Acid Analysis)	80-100 (%)	85.86 %
Appearance (L111765)	White Solid	White Solid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility,Colorless to Faint Yellow,Clear ,50 mg/ml, H <sub>2</sub> O	pass	Pass
Test as a protease inhibitor	Pass	Pass



John Su  
QA & QC Manager