

Certificate of Analysis

PRODUCT:	Leupeptin, Hemisulfate (Synthetic) Cathepsin B inhibitor; [Acetyl-Leu-Leu-Arg-al; Acetyl-L-leucyl-L-leucyl-L-argininal . hemisulfate] C₂₀H₃₈N₆O₄ • 0.5H₂SO₄, M.W. 475.6, CAS# [103476-89-7]	
PRODUCT NUMBER:	L-1165	
LOT NUMBER:	L1089	
APPEARANCE:	White powder	
	<u>SPECIFICATIONS:</u>	<u>RESULTS:</u>
SOLUBILITY:	Clear colorless to faint yellow solution (50 mg/mL in H ₂ O)	Conforms
PURITY (HPLC):	≥90%	≥96.5%
OPTICAL ROTATION: <i>(Reported value only)</i>	$[\alpha]_D^{22}$ (C=1, H ₂ O)	-74.0°
PEPTIDE CONTENT:	>70%	>85%
WATER CONTENT (KF):	<10.0%	Conforms
COUNTRY of ORIGIN:	Germany	
STORAGE & HANDLING:	Store desiccated at -20°C. HYGROSCOPIC! PROTECT FROM LIGHT & MOISTURE!	

CAUTION: For research use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified: EV