

## Certificate of Analysis

<b>PRODUCT:</b>	<b>E-64 (Synthetic)</b> <small>[<i>trans</i>-Eepoxysuccinyl-L-Leucylamido-(4-Guanidino) Butane]; Protease inhibitor, C<sub>15</sub>H<sub>27</sub>N<sub>5</sub>O<sub>5</sub> • 0.5 H<sub>2</sub>O, M.W. 357.4 (anhydrous), CAS# [66701-25-5]</small>	
<b>PRODUCT NUMBER:</b>	E-2030	
<b>LOT NUMBER:</b>	K1265C (Same as Mother Lot# K1265)	
<b>APPEARANCE:</b>	White powder	
	<b><u>SPECIFICATIONS:</u></b>	<b><u>RESULTS:</u></b>
<b>SOLUBILITY:</b>	Up to 20mg/ml in H <sub>2</sub> O Up to 25mg/ml in DMSO	Conforms
<b>PURITY (HPLC):</b>	≥99%	>99%
<b>PURITY (TLC):</b>	Single spot	Conforms
<b>OPTICAL ROTATION:</b>	[α] <sup>22</sup> <sub>D</sub> =+21° to +26°(c=1.0, 1 N HCl)	+24°
<b>ELEMENTAL ANALYSIS:</b>	<b>C:</b> 49.0% - 51.4% <b>H:</b> 7.70%(Theoretical) <b>N:</b> 19.0% - 20.0%	<b>C:</b> 49.3% <b>H:</b> 7.6% <b>N:</b> 19.1%
<b>WATER CONTENT (KF):</b>	<10.0%	Conforms
<b>COUNTRY of ORIGIN:</b>	EU	
<b>STORAGE &amp; HANDLING:</b>	<b>Store desiccated at -20°C. PROTECT FROM LIGHT!</b> <small>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.</small>	

Verified: KLS