

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalogue Number</b>	03882
<b>Lot Number</b>	000127-1016576
<b>Product</b>	<b><i>N</i><sup>α</sup>-<i>Z</i>-<i>N</i><sup>ε</sup>-Boc-L-lysine 4-nitrophenyl ester</b>  Z-L-Lys(Boc)-ONp
<b>CAS Number</b>	2212-69-3
<b>Molecular Formula</b>	C <sub>25</sub> H <sub>31</sub> N <sub>3</sub> O <sub>8</sub>
<b>Molecular Weight</b>	501.54

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<b>Appearance</b>	White powder
<b>Appearance of Solution</b>	Clear and colorless solution (5% in Dioxane)
<b>Water Content (Karl Fisher)</b>	0.35%
<b>TLC System</b>	Chloroform/Methanol (9:1) Chloroform/Methanol/Acetic Acid (90:8:2) Chloroform/Ethylacetate/Acetic Acid (50:50:2) Plate: Silica gel 60 F <sub>254</sub> Detected by: UV, ninhydrin, chlorine-tolidine, NH <sub>3</sub>
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>24</sup> = -17.5° (C=1 in Acetone)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Purity by TLC</b>	> 98%
<b>Storage</b>	Store at 0-8 °C
<b>Remarks</b>	See material safety data sheet for additional information  For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



**Bala Kumar**  
Quality Control Manager