



# INDOFINE Chemical Company, Inc.

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## *Certificate of Analysis*

<b>Catalogue Number</b>	04-151
<b>Lot Number</b>	000129-12016
<b>Product</b>	<b>L-Alanine 4-nitroanilide hydrochloride</b>
	L-Ala-pNA•HCl
<b>CAS Number</b>	31796-55-1
<b>Molecular Formula</b>	C <sub>9</sub> H <sub>11</sub> N <sub>3</sub> O <sub>3</sub> •HCl
<b>Molecular Weight</b>	245.7
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<b>Appearance</b>	Off-white crystalline powder
<b>Melting Point</b>	182.8-183.6 °C
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = +10.7° (C=1 in MeOH)
<b>Assay by titration</b>	94.1%
<b>Purity by HPLC</b>	99.9%
<b>Purity by TLC</b>	> 99%
<b>Storage</b>	Store at 0-8 °C