

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalogue Number</b>	03279
<b>Product</b>	<b>Ala-Ala-Phe-pNA</b>
<b>Lot Number</b>	000129-180642 Ala-Ala-Phe <i>p</i> -nitroanilide
<b>CAS Number</b>	61043-41-2
<b>Molecular Formula</b>	C <sub>21</sub> H <sub>25</sub> N <sub>5</sub> O <sub>5</sub>
<b>Molecular Weight</b>	427.46
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<b>Appearance</b>	White crystalline powder
<b>Melting Point</b>	214 - 217 °C
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = + 58.8 ° (C=0.5 in DMF) [α] <sub>D</sub> <sup>20</sup> = - 0.8 ° (C=0.2 in MeOH) [α] <sub>D</sub> <sup>20</sup> = + 20.4 ° (C=1 in 80% AcOH)
<b>Assay by titration</b>	99.4%
<b>Purity by HPLC</b>	99.5%
<b>Purity by TLC</b>	> 99%
<b>Storage</b>	Store at 0-8 °C

**Remarks** 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