

# *Chem-Impex International, Inc.*

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**Manufacturing site:**

825 Dillon Drive

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## *Certificate of Analysis*

<b>Catalogue Number</b>	02720
<b>Lot Number</b>	000424-120618-20302
<b>Product</b>	<b>Boc-4-amino-L-phenylalanine</b>

Boc-L-Phe(4-NH<sub>2</sub>)-OH

Boc-*p*-amino-L-Phe-OH

<b>CAS Number</b>	55533-24-9
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<b>Molecular Formula</b>	C <sub>14</sub> H <sub>20</sub> N <sub>2</sub> O <sub>4</sub>
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<b>Molecular Weight</b>	280.3
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<b>Appearance</b>	White to off white powder
<b>Solubility</b>	Clear solution (0.3g in 2ml DMF)
<b>Melting Point</b>	113-137 °C
<b>Water Content (Karl Fisher)</b>	1.72%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = +26.1° (C=1 in MeOH)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Loss on Drying</b>	1.3%
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Purity by HPLC</b>	98.41%
<b>Storage</b>	Store at 0-8°C

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**Lot Number: 000424-120618-20302**

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**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**

A handwritten signature in black ink, appearing to read 'Bala Kumar', with a stylized flourish at the end.

**Bala Kumar**  
**Quality Control Manager**