

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalogue Number</b>	30477
<b>Lot Number</b>	000129-15046
<b>Product</b>	<b>(S)-4-(Boc-amino)-3-(Z-amino)butyric acid</b> Z-D- $\beta$ -Dbu(Boc)-OH N <sup>b</sup> -Z-N <sup>g</sup> -Boc-S-Diaminobutyric acid
<b>CAS Number</b>	96186-30-0
<b>Molecular Formula</b>	C <sub>17</sub> H <sub>24</sub> N <sub>2</sub> O <sub>6</sub>
<b>Molecular Weight</b>	352.4

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<b>Appearance</b>	White crystalline powder
<b>Melting Point</b>	140 - 142 °C
<b>Optical Rotation</b>	[ $\alpha$ ] <sub>D</sub> <sup>20</sup> = -12.7 ° (C=1 in DMF)
<b>Assay by titration</b>	100.1%
<b>Purity by HPLC</b>	99.5%
<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