

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalogue Number</b>	46512
<b>Lot Number</b>	000424-230210-12930
<b>Product</b>	<b><i>N</i><sup>α</sup>-Acetyl-<i>N</i><sup>ω</sup>-(2.2.4.6.7- Ac-L-Arg(Pbf)-OH</b>
<b>Molecular Formula</b>	C <sub>21</sub> H <sub>32</sub> N <sub>4</sub> O <sub>6</sub> S
<b>Molecular Weight</b>	466.53

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<b>Appearance</b>	Off-white powder
<b>Solubility</b>	Clear solution 0.3 g in 2 mL DMF
<b>Melting Point</b>	130.1 - 159.6 °C
<b>Elemental Analysis (Found)</b>	C, H and N : < 5%
<b>Water Content (Karl Fisher)</b>	3.57%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = 6.8 ° (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>	1.57% (40 °C, 2 h)
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Chiral HPLC</b>	99.97% (ee)
<b>D-Enantiomer</b>	0.03%
<b>Purity by HPLC</b>	99.30%
<b>Storage</b>	Store at RT
<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