

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalogue Number</b>	41553
<b>Lot Number</b>	000873-8758
<b>Product</b>	<b>(S,S)-2,2'-Bipyrrolidine D-tartrate trihydrate</b> (2S,2'S)-2,2'-Bipyrrolidine (2S,3S)-2,3-dihydroxybutanedioate
<b>CAS Number</b>	136937-03-6 (anhydrous)
<b>Molecular Formula</b>	C <sub>8</sub> H <sub>16</sub> N <sub>2</sub> •C <sub>4</sub> H <sub>6</sub> O <sub>6</sub> •3H <sub>2</sub> O
<b>Molecular Weight</b>	344.36

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<b>Appearance</b>	White crystals
<b>Elemental Analysis (Found)</b>	C : 41.62%, H : 8.41%, N : 8.13%
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>L-Enantiomer</b>	0.3%
<b>Purity by GC</b>	99%
<b>Chiral Purity</b>	99.7% (ee), (GC)
<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