



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-229036
Lot Number: SAMPLE
Product Name: (R,R)-2,2'-Bipyrrolidine L-tartrate trihydrate
CAS Number: 137037-21-9
Molecular Formula: $C_8H_{16}N_2 \cdot C_4H_6O_6 \cdot 3H_2O$
Molecular Weight: 344.36

Test	Specification	Result
Appearance	White /colorless powder to fine crystals	White fine crystals
Enantiomeric Excess	$\geq 99.5\%$ (GC)	99.7%
Identification (1H -NMR)	Consistent with structure	Complies
Identification (^{13}C -NMR)	Consistent with structure	Complies
Purity (GC)	$\geq 99.5\%$	99.8%
Carbon Content	41.85%	41.81%
Hydrogen Content	8.20%	8.23%
Nitrogen Content	8.13%	8.18%
Water Content	15 - 17%	15.90%

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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