



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-255555
Lot Number: SAMPLE
Product Name: (S)-(-)-Methylsuccinic acid
CAS Number: 2174-58-5
Molecular Formula: $C_5H_8O_4$
Molecular Weight: 132.11

Test	Specification	Result
Enantiomeric Excess	≥ 98.0 ee% (by GC)	99.9 ee%
Purity (GC)	$\geq 98.0\%$	98.6%
Purity (Neutralization Titration)	$\geq 98.0\%$	100.1%
Melting Point	111.0 - 115.0 °C	114.2 °C
Solution (Clarity)	Almost transparency in methanol	Transparency in methanol
Specific Rotation ($\alpha_{20/D}$)	-14.0 - -17.0° (C = 2, EtOH)	-16.4°

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.

Santa Cruz Biotechnology, Inc. 800.457.3801 831.457.3800 fax 831.457.3801 Europe +00800 4573 8000 49 62221 4503 0 www.scbt.com