



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-495799
Lot Number: SAMPLE
Product Name: 20(S)-Ginsenoside F1
CAS Number: 53963-43-2
Molecular Formula: $C_{36}H_{62}O_9$
Molecular Weight: 638.87

Test	Specification	Result
Appearance		Pale yellow solid
Identification (1H-NMR)		Consistent with structure
Identification (Mass Spectrometry)		Consistent with structure
Purity (TLC)		97%
Atmosphere		Inert gas
Melting Point		> 165 °C (dec.)
Solubility		DMSO (slightly), methanol (slightly)
Specific Rotation		+57.3° (c = 0.1, methanol)
Carbon Content	67.68%	63.21%
Hydrogen Content	9.78%	10.13%
Water Content (KF)		5.7%

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