



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-202239
Lot Number: SAMPLE
Product Name: Nemadectin
CAS Number: 102130-84-7
Molecular Formula: $C_{36}H_{52}O_8$
Molecular Weight: 612.80
Native Source: *Streptomyces* sp.

Test	Specification	Result
Appearance	White to off-white solid	Complies
Assay	$\geq 90.0\%$	96.9%
Identification (1H-NMR)	Conforms to structure	Complies
Identification (Infrared Spectrum)	Conforms to structure	Complies
Identification (Mass Spectrometry)	Conforms to structure	Complies
Purity (HPLC)	$\geq 95.0\%$	97.8%
Elemental Analysis	Conforms to structure	Complies
Solubility		Methanol, DMSO, Acetonitrile
Optical Rotation	$[\alpha]_D^{25.0}(c=0.30, \text{acetone}): +133.0^\circ$	$[\alpha]_D^{25.0}(c=0.53, \text{acetone}): +142.7^\circ$
Impurity		RT 1.11, 1.04%; RT 4.45, 0.16%; RT 9.00, 0.31% (HPLC)
Water Content (KF)		0.9%

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