



CERTIFICATE OF ANALYSIS

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA
Tel: (416) 665-9696, Fax: (416) 665-4439
Email: orders.trc@lgcgroup.com Website: www.trc-canada.com

1. Identification

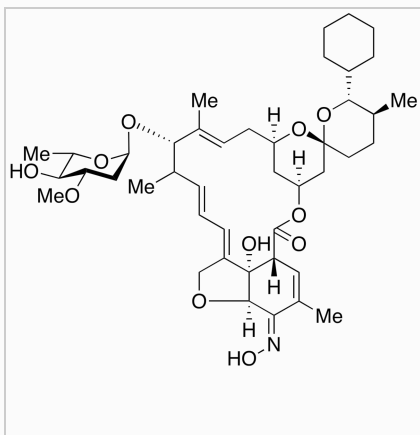
Catalogue Number: S247990

CAS Number: 220119-17-5

Product: Selamectin

Synonym: Revolution; Revolution (antibiotic); Selamectin; Stronghold; (5Z)-25-Cyclohexyl-4'-O-de(2,6-dideoxy-3-O-methyl- α -L-arabino-hexopyranosyl)-5-demethoxy-25-de(1-methylpropyl)-22,23-dihydro-5-(hydroxyimino)avermectin A1a;

Structure:



Molecular Formula:

$C_{43}H_{63}NO_{11}$

Molecular weight:

769.97

Source of Product:

Synthetic

Solubility:

Chloroform (Slightly),
Dichloromethane (Slightly,
Heated), DMSO (Slightly),
Etha

Lot Number: 16-ISU-109-4

Purity: 95%

Shipping Condition: This Product Is Stable To Be
Shipped With Blue Ice

Storage Condition: -20°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Yellow Solid	Pale Yellow Solid
NMR	Conforms to Structure	Conforms
HPLC Purity	Report Result	96.22% (245 nm)
MS	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 64.93, %H: 8.34, %N: 1.78
Specific Rotation	Report Result	-24.2° (c = 0.5, Ethanol)
Water Content	Report Result	~3.2% based on Elemental Analysis

Additional Information: Contains: ~1.1% Ethyl Acetate

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of $\pm 2\%$. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Henry Tieu	Toni Rantanen	Chanell Chu	8/31/2021	8/29/2025
				