



## CERTIFICATE OF ANALYSIS

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### 1. Identification

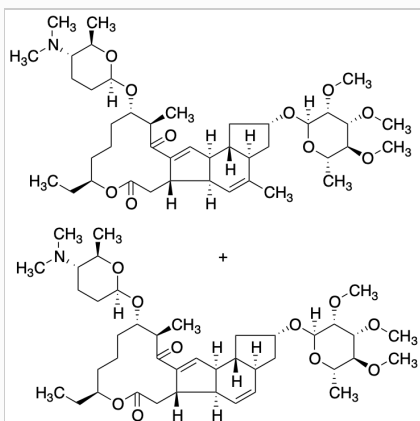
**Catalogue Number:** S681920

**CAS Number:** 168316-95-8

**Product:** Spinosad

**Synonym:** Blackhawk; Comfortis; Conserve; Entrust; Entrust WP; Extinosad; GF 120; GF 120 Fruit Fly Bait; GF 120 NF Naturalyte; GF 120 Naturalyte Fruit Fly Bait; GF 1587; Gardens Alive Bulls-Eye; LY 232105; Laser; Laser (insecticide); Naturalure; Naturalure Fruit Fly Bait; Naturalyte; PP 105; SpinTor; Spinoace; Spinosad 45% SC; Spinosad 45SC; Spinosad NT; Spinosyn A-spinosyn D mixt.; Success; Success 4; Success Naturalyte; Tracer; Tracer Naturalyte; Tracer Naturalyte Insect Control;

**Structure:**



**Molecular Formula:**

$C_{42}H_{67}NO_{10} + C_{41}H_{65}NO_{10}$

**Molecular weight:**

746.00+731.97

**Source of Product:**

N/A

**Solubility:**

Chloroform (Slightly), DMF (Slightly), DMSO (Slightly), Methanol (Slightly)

**Lot Number:** 20-ZEA-189-1

**Purity:** 97%

**Shipping Condition:** This Product Is Stable To Be Shipped At Room Temperature

**Storage Condition:** -20°C

### 2. Warning

**Warning 1:**

**Warning 2:**

**Warning 3:**

### 3. Analytical Information

Tests:	Specifications:	Results:
Elemental Analysis	Conforms	%C: 67.54, %H: 9.20, %N: 1.90
Appearance	Off-White to Pale Brown Solid	Off-White to Pale Brown Solid
NMR	Conforms to Structure	Conforms
MS	Conforms to Structure	Conforms

**Additional Information:** Contains: 90% Spinosyn A, 8.5% Spinosyn D

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	6/10/2021	6/8/2025
				