



## CERTIFICATE OF ANALYSIS

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### 1. Identification

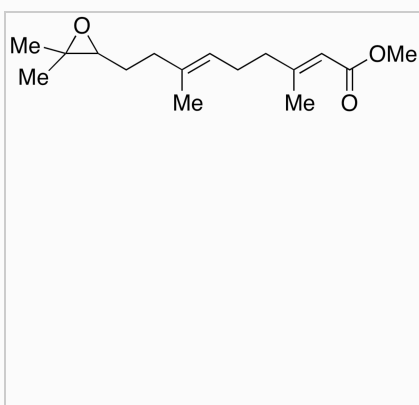
**Catalogue Number:** E589400

**CAS Number:** 24198-95-6

**Product:** trans-trans-10,11-Epoxy Farnesenic Acid Methyl Ester

**Synonym:** (2E,6E)- 9-(3,3-Dimethyl-2-oxiranyl)-3,7-dimethyl-2,6-nonadienoic Acid Methyl Ester; (E,E)-(±)-10,11-Epoxy-3,7,11-trimethyl-2,6-dodecadienoic Acid Methyl Ester; (E,E)-Methyl 3,7,11-trimethyl-10,11-epoxy-2,6-dodecadienoate; (±)-Juvenile Hormone III; Methyl RS-(±)-10,11-Epoxyfarnesate;

**Structure:**



**Molecular Formula:**

C<sub>16</sub>H<sub>26</sub>O<sub>3</sub>

**Molecular weight:**

266.38

**Source of Product:**

Synthetic

**Solubility:**

Chloroform (Slightly), Ethyl Acetate (Slightly), Methanol (Slightly)

**Lot Number:** 3-JEP-100-2

**Purity:** 95%

**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:                            |
|--------------------|-------------------------------|-------------------------------------|
| Appearance         | Colourless to Pale Yellow Oil | Clear Colourless to Pale Yellow Oil |
| NMR                | Conforms to Structure         | Conforms                            |
| Elemental Analysis | Conforms                      | %C: 72.32, %H: 9.81                 |
| MS                 | Conforms to Structure         | Conforms                            |
| HPLC Purity        | Report Result                 | 95.83% (220 nm)                     |

**Additional Information:** N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 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 |
|-------------|---------------|--------------------|-----------|-------------|
| Neha Khanna | Toni Rantanen | Chanell Chu        | 8/6/2021  | 8/4/2025    |