

# Chem-Impex International, Inc.

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825 Dillon Drive

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## Certificate of Analysis

<b>Catalogue Number</b>	39251
<b>Product</b>	<b>Costunolide</b>
<b>Lot Number</b>	002960-21061804 (3a <i>S</i> ,6 <i>E</i> ,10 <i>E</i> ,11 <i>aR</i> )-6,10-Dimethyl-3-methylene-3a,4,5,8,9,11a-
<b>CAS Number</b>	553-21-9
<b>Molecular Formula</b>	C <sub>15</sub> H <sub>20</sub> O <sub>2</sub>
<b>Molecular Weight</b>	232.32

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<b>Appearance</b>	Off-white powder
<b>Water Content (Karl Fisher)</b>	< 0.1%
<b>Analysis by Mass Spectra</b>	232.3 ± 1
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Purity by HPLC</b>	99.8%
<b>Storage</b>	Store at -10 °C
<b>Remarks</b>	See material safety data sheet for additional information For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



**Bala Kumar**  
Quality Control Manager