



The Power to Question

# CERTIFICATE OF ANALYSIS

Catalog Number: sc-479393  
Lot Number: SAMPLE  
Product Name: (+)-cis-Abienol  
CAS Number: 17990-16-8  
Molecular Formula:  $C_{20}H_{34}O$   
Molecular Weight: 290.48  
Native Source: Synthetic

Test	Specification	Result
Appearance		Pale yellow waxy solid
Assay		Production: 1/4/2017 Retest Date: 1/2/2024 Expiration Date: 1/4/2027
Identification ( $^1H$ -NMR)		Consistent with structure
Identification (Mass Spectrometry)		Consistent with structure
Purity (TLC)		96%
Atmosphere		Inert gas
Melting Point		39.0 - 42.0 °C
Solid Content		Chloroform and ethyl acetate
Specific Rotation		+21.4°
Carbon Content	82.69%	82.54%
Hydrogen Content	11.80%	11.55%

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.

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