

## Certificate of Analysis

Date of Testing: 2023-05-08 13:39:00  
Date of Next Testing: 2027-05-07 13:39:00  
Product Name: **(S)-(-)- $\beta$ -Citronellol**  
CAS Number: 7540-51-4  
Specifications & Purity: 99%  
Lot #: G1931006  
SKU #: **C111343**  
Analysis: **219142**

Parameter	Limit Values	Result
Purity(GC)	99-100 (%)	99.46 %
Density (20°C)	0.854-0.858	0.86
Refractive index n <sub>20</sub> /D	1.454-1.458	1.46
Specific Rotation [α] <sub>20</sub> /D(c=Neat)	-7--3 (°)	-4.61 °
Appearance (C111343)	Colorless to light yellow liquid	Colorless to light yellow liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager