

Certificate of Analysis

Product: Cedarwood Atlas Oil – BIO

Botanical Name: *Cedrus atlantica* (Endl.) Manetti ex Carrière

Country of Origin: Morocco

PHYSICAL AND CHEMICAL PROPERTIES

TEST	RESULT	SPECIFICATION
Specific Gravity @ 20° C	0.929	0.927 - 0.940
Refractive Index @ 20° C	1.511	1.500 - 1.520
Optical Rotation @ 20° C	+90°	65° - 90°

GAS CHROMATOGRAPH ANALYSIS (TYPICAL)

CONSTITUENT	RESULT (%)	SPECIFICATION (%)
4-acetyl-1-methylcyclohexene	0.61	
α cedrene	0.59	≤ 6.00
longifolene	0.75	
β cedrene	0.48	
α himachalene	17.44	12.00 – 20.00
γ himachalene	10.24	6.00 – 14.00
β himachalene	47.50	40.00 – 52.00
δ cadinene	1.96	
ar-curcumene	0.63	
8.9-dehydro-neoisolongifolene	0.97	
calamenene	0.22	
6-methoxy-1-acetonaphtone	0.81	
α ar-himachalene	0.31	
γ dehydrohimachalene	0.85	
calacorene	0.56	
epoxyhimachalene	0.30	
epicubenol	0.82	
calamenol	0.51	
β atlantone	0.66	
cis γ atlantone	1.40	
trans γ atlantone	0.59	
deodarone	1.06	
cis α atlantone	0.63	
trans α atlantone	2.35	≤ 6.00