

## 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
Relative Density @ 20° C	0.937	0,9270 / 0,9400
Refractive Index @ 20° C	1.5131	1,5000 / 1,5200
Optical Rotation @ 20° C	69.952	65,0000 / 90,0000°

### GAS CHROMATOGRAPH ANALYSIS (TYPICAL)

CONSTITUENT	RESULT (%)	SPECIFICATION (%)
4-Acétyle-1-MTHcyclohexene	1.1	
Cedrene alpha	1.04	0 / 6,00%
Longifolene	0.76	
Cedrene beta	0.44	
Himachalene alpha	14.83	12,00 / 20,00%
Himachalene gamma	9.29	6,00 / 14,00%
Himachalene beta	38.26	40,00 / 52,00%
Cadinene delta	2.37	
Ar curcumene	1.05	
8,9-Déhydro-néoisolongifoléne	1.54	
Calamenene	0.14	
Alpha ar-himachaéne	0.08	
6-Méthoxy-1-acétonaphtone	0.05	
Epoxy himachaéne	0.6	
Cubénol	0.87	
Cedrol	0.12	
Béta atlantone	0.9	
Cis gamma atlantone	1.24	
Trans gamma atlantone	1.78	
Déodarone	0.89	
Cis alpha atlantone	0.09	
Atlantone trans alpha	4.1	0 / 6,00%