

Certificate of Analysis

Product: Niaouli Oil – BIO
Botanical Name: *Melaleuca quinquenervia* (Cav.) S.T. Blake
Country of Origin: Madagascar

PHYSICAL AND CHEMICAL PROPERTIES

TEST	RESULT	SPECIFICATION
Specific Gravity @ 20° C	0.913	0.904 - 0.925
Refractive Index @ 20° C	1.468	1.463 - 1.472
Optical Rotation @ 20° C	-1°	-4° - 1°

GAS CHROMATOGRAPH ANALYSIS (TYPICAL)

CONSTITUENT	RESULT (%)	SPECIFICATION (%)
α pinene +	9.10	5.00 – 15.00
α thujene		
camphene	0.08	
β pinene	2.39	
myrcene	0.92	
α phellandrene	0.08	
α terpinene	0.31	
limonene	7.49	5.00 – 10.00
1.8-cineole	55.81	45.00 – 65.00
γ terpinene	1.44	
para cymene	0.87	
terpinolene	0.67	
α copaene	0.05	
benzaldehyde	0.16	
linalol	0.16	
terpinen-4-ol +	2.55	
β caryophyllene		
aromadendrene	0.08	
alloaromadendrene	0.44	
α humulene	0.35	
α terpineol +	7.64	3.00 – 8.00
terpenyl acetate		
viridiflorene	0.84	

β selinene	0.25	
α selinene	0.17	
δ cadinene	0.26	
γ cadinene	0.17	
geraniol	0.08	
oxyde de caryophyllene	0.18	
nerolidol	1.69	
ledol	0.59	
globulol	0.05	
viridiflorol	3.87	2.50 – 9.00