

## Certificate of Analysis

Product: Rosemary CT Cineole Oil – BIO

Botanical Name: *Rosmarinus officinalis* L.

Country of Origin: Morocco

### PHYSICAL AND CHEMICAL PROPERTIES

TEST	RESULT	SPECIFICATION
Specific Gravity @ 20° C	0.910	0.895 - 0.915
Refractive Index @ 20° C	1.465	1.460 - 1.474
Optical Rotation @ 20° C	-0.44°	-2° - 10°

### GAS CHROMATOGRAPH ANALYSIS (TYPICAL)

CONSTITUENT	RESULT (%)	SPECIFICATION (%)
tricyclene	0,21	
α pinene	13,54	9,00 - 17,00
α fenchene	0,10	
camphene	5,14	
β pinene	6,05	2,00 - 10,00
sabinene	0,08	
myrcene	1,29	
α phellandrene	0,22	
α terpinene	0,63	
limonene	2,11	
cineol 1-8	42,97	41,00 - 52,00
cis β ocimene	0,06	
γ terpinene	0,95	
para cymene	1,13	
terpinolene	0,32	
octen-1-ol-3	0,14	
α copaene	0,07	
camphre	11,21	5,00 - 15,00
linalol	0,92	
bornyl acetate	1,07	
terpinene 4 ol	0,62	
β caryophyllene	4,00	
δ terpineol	0,40	

$\alpha$ humulene	0,43	
$\alpha$ terpineol	1,85	
borneol	3,19	
germacrene d	0,13	
verbenone	0,08	
$\delta$ cadinene	0,09	
caryophyllene oxyde	0,12	
methyleugenol		