

ANALYSIS

Product Name : PINE OIL (SCOTCH PINE)
Aceite esencial de Pino Silvestre

Botanical name : Pinus Sylvestris

Batch number : LS108887

Origin : Rusia

Analysis features :

Agilent GC System 7890A - Column : HP INNOWAX polaire : 60 m ´ 0,25 mm ´ 0,5 µm

Temperature program : 8 min to 95 °C – 4 °C/min till 190 °C - 29 min to 190°C

Carrier gas H2 : 30 psis/FID. Injector : split. Sample : 0.1 µl without dilution

The compounds of the essential oils are identified by retention times.

% Are calculated from the peak areas given by the GC / FID without the use of a correction factor.

Physical characteristics:

Density at 20°C	0.863
Refractive index at 20°C	1.472
Optical rotation at a 20°C	-18.9

Production date: September 2019

Best before end: September 2023

GC Results

COMPONENTS	%	Standar	Pharma
TRICYCLEN	0.13		
a-PINENE + a-THUJENE	41.03	30 - 60	
a-FENCHENE	0.11		
CAMPHENE	1.31		
b-PINENE	19.73	15 - 25	
PINADIENE	0.03		
d-3-CARENE + b-MYRCENE	18.24	10 - 20	
a-PHELLANDRENE	0.16		
a-TERPINENE	1.34		
LIMONENE	7.59	5 - 15	
b-PHELLANDRENE	1.26		
g-TERPINENE	0.03		
p-CYMENE	1.36	1 - 2	
TERPINOLENE	0.78		
CAMPHOR	0.02		
LINALOOL	0.01		
LINALYL ACETATE	0.02		
BORNYL ACETATE	1.42		
b-CARYOPHYLLENE	1.68		
trans-PINOCARVEOL	0.03		
trans-VERBENOL	0.19		
a-TERPINEOL	0.59	3 - 8	
BORNEOL	0.08		
d-CADINENE	0.10		
p-CYMENE-8-OL	0.02		
CARYOPHYLLENE OXYDE	0.03	2.5 - 9	
TOTAL	97.29		