

ANALYSIS

Product Name : **BLACK PEPPER OIL**
Aceite esencial de Pimienta Negra
Botanical name : Piper nigrum
Batch number : LS107429
Origin : India

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	0,881
Refractive index at 20°C	1,502
Optical rotation at a 20°C	-11,5

Production date:

Best before end:

GC Results

COMPONENTS	%	Standar
a-PINENE	10,66	3 – 12
b-PINENE	9,77	5 – 12
SABINENE	9,86	6 – 15
DELTA-3CARENE	11,58	3 – 15
LIMONENE	14,42	10 – 17
ELEMENE	2,10	0,5 – 3,5
a-COPAENE	1,96	0,5 – 4,5
B-CARIOPHILLENE	27,80	12 – 29
GERMACRENE D	0,25	0 – 2
b-SELINENE	0,61	0,5 – 3,5
a-SELINENE	0,12	0 – 3
OXYDE DE CARYOPHYLLENE	0,43	0 - 1
TOTAL	89,57	