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ANALYSIS

Product Name : **VETIVER Essential Oil**
Aceite esencial de Vetiver

Botanical name : Vetiveria zyzanoides

Batch number : LS111655

Origin : Haiti

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	1.026
Refractive index at 20°C	1.524
Optical rotation at a 20°C	25.0

Production date:

Best before end:

GC Results

COMPONENTS	%	Standar	Pharma
ALKYL BENZENE Mw=190	0.40		
ALKYL BENZENE Mw=190	1.40		
b-ELEMENE	0.10		
ALKYL BENZENE Mw=188	0.18		
b-CUBEBENE	0.07		
PREZIZA-7-ENE	0.51		
KHUSIMENE	0.62		
ALKYL BENZENE Mw=190	0.44		
g-MUUROLENE	1.26		
CALARENE	0.54		
COPACAMPHENE	0.80		
ALKYL BENZENE Mw=190	0.25		
GERMACRENE-D + SATIVENE	0.70		
DIMETHYL BUTENYL BENZENE	1.00		
BICYCLOGERMACRENE	0.15		
a-VETISPIRENE	0.79		
d-CADINENE	0.14		
g-CADINENE	0.11		
b-VETISPIRENE Mw=202	1.50		
b-VETIVENENE	2.22		
g-VETIVENENE	1.01		
a-CALACORENE	0.22		
LEVOJUNENOL	0.41		
ELEMOL	0.15		
10-epi-g-EUDESOL	0.15		
8-OXO NEOISOLONGILOLENE Mw=218	0.29		
g-EUDESOL	0.32		
t-CADINOL	0.12		
a-MUUROLOL	0.58		
VALERANIOL	0.29		
a-EUDESOL	0.19		
SESQUITERPENOL Mw=220	1.31		
b-EUDESOL	0.41		
a-CADINOL	0.14		
b-BISABOLOL ISOMER	0.28		
EUDESMA-7-EN-4-OL ISOMER	0.31		
BICYCLOVETIVENOL	1.39		
EUGENOL	0.54		

COMPONENTS	%	Standar	Pharma
ZIZANOL	0.87		
VETIVENOL	0.46		
VETISELINENOL Mw=220	1.18		
SESQUITERPENOL Mw=220	0.22		
SESQUITERPENOL Mw=220	0.12		
VETIVEROL Mw=220	0.43		
KHUSIMOL	3.63		
b-VETIVONE	2.47		
NOOTKATONE	0.41		
ISOVALENCENOL	1.43		
z-g-CURCUMENE-12-OL	0.33		
a-VETIVONE	3.17		
ACIDE ISOKHUSENIQUE	4.88		
COMPOSE ACIDE Mw=234	2.88		
ACIDE KHUSENIQUE	23.80		
COMPOSE ACIDE Mw=234	4.35		
TOTAL	71.92		