

CUSTOMER :

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Sample nature : ESSENTIAL OIL
Botanical species : CYMBOPOGON Sp.
Reference name : LEMONGRASS
Batch number : HSL03890
Origin :
Part: HERB
Pyrenessences reference : D983

Packaging : Brown flask of 10 ml – ambient temperature
Analysis : GC Simple
Shelf life : 1 year

Comments and conclusions :

⇒ **THIS BATCH IS IN COMPLIANCE WITH THE STANDARD OF
LEMONGRASS (Cymbopogon citratus or flexuosus)**

This sample is pure and non-adulterated

Validated report by :

Daniel DANTIN

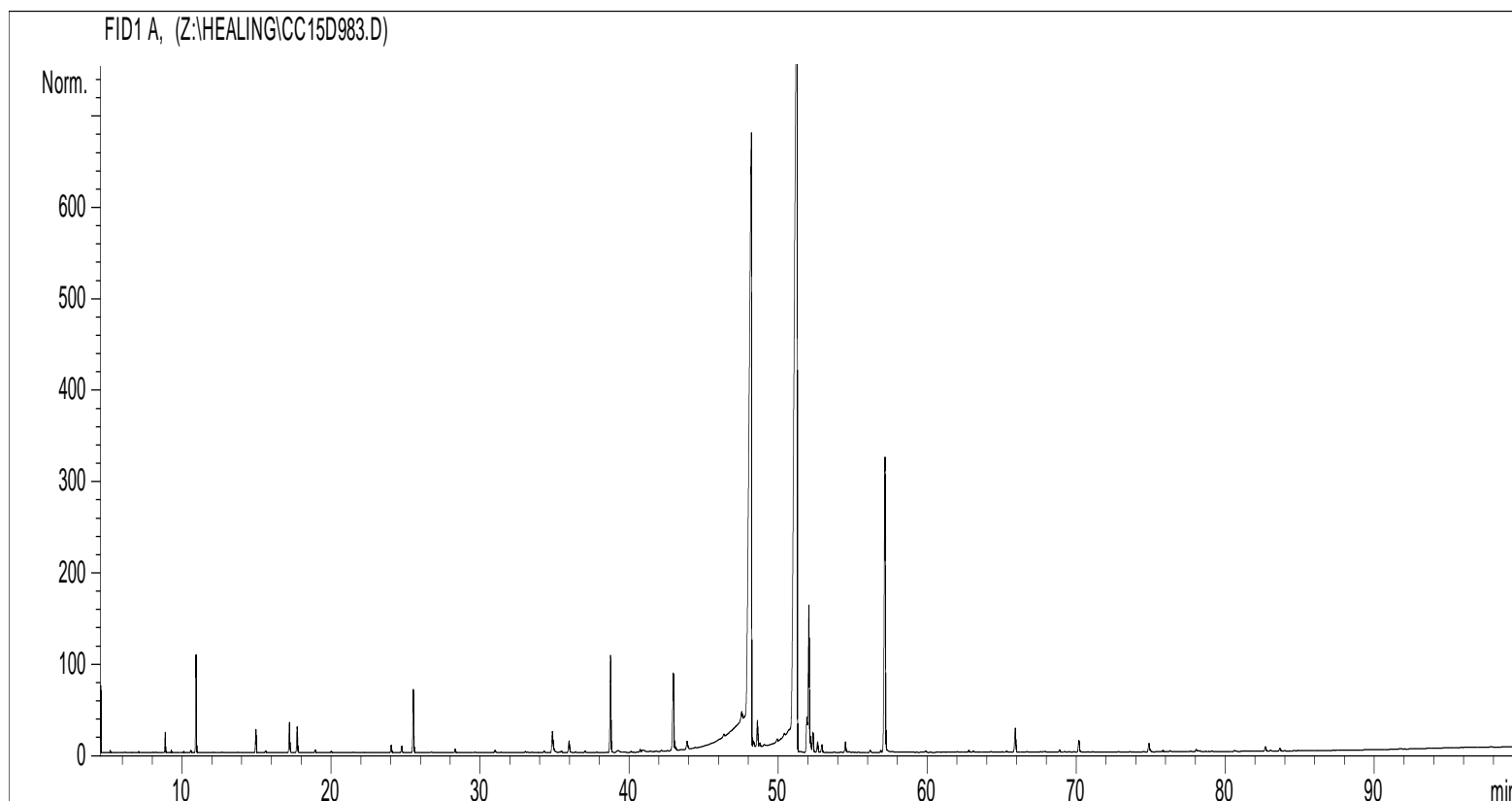


GAS CHROMATOGRAPHY norm NF ISO 11024

Analysis conditions :

CPG 6890 / MS 5973 – Column : VF WAX polar 60 m × 0,25 mm × 0,5 µm
 CPG 6890 FID - Column : VF WAX polar 60 m × 0,25 mm × 0,5 µm
 Temperature program : 6 mn to 70 °C -2 °C/mn→250 °C - 10mn to 250 °C
 Carrier gas He : 23 psis/MS – 30 psis/FID
 Sample injection / split : 1 µl of 10 % solution in hexane,
 Mass range : 30 to 350, Oil components are identified by a combination of retention times
 (our own database) and mass spectra library NKS 75 000 records,
 Percentages are calculated from GC/FID peaks areas without using corrections factors,

Chromatographic profile (GC/FID)



Identification results : LEMONGRASS BATCH N° HSL03890

TR (min)	Constituants	%	Norm (%)	TR (min)	Constituants	%	Norm (%)
8,9	α-PINENE	0,22		11,0	CAMPHENE	1,20	
15,0	β-MYRCENE	0,30		17,2	LIMONENE	0,45	
17,7	1,8-CINEOLE	0,39		25,5	6-METHYL-5-HEPTENE-2-ONE	0,99	
34,8	CITRONELLAL	0,49		36,0	α-COPAENE	0,21	
38,7	LINALOL	1,58		43,0	β-CARYOPHYLLENE	1,59	
48,2	NÉRAL	35,39		48,6	α-TERPINEOL	0,89	
51,3	GÉRANIAL	42,84		51,9	Trans-ISOPIPERITENOL	0,57	
52,1	GERANYL ACETATE	2,68		52,3	δ-CADINENE	0,36	
57,2	GÉRANIOL	6,00		65,9	CARYOPHYLLENE EPOXIDE	0,47	
70,2	ELEMOL	0,22			TOTAL	96,84	