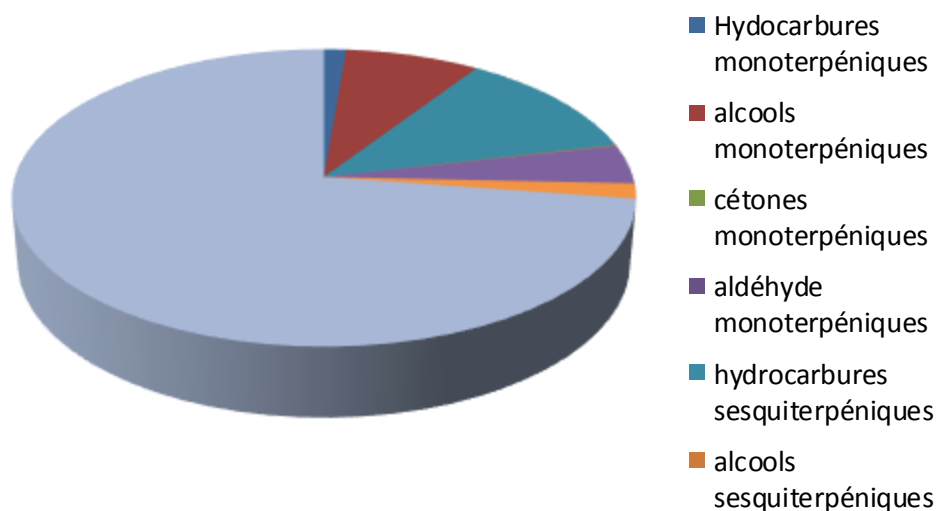
 <b>JE INTERNATIONAL</b>	<b>ENREGISTREMENT DES BULLETINS ANALYTIQUES : CHROMATOGRAPHIE ESSENTIAL OIL CHROMATOGRAPHY SHEET RECORDS</b>	<b>FORM-LAB005-B</b>	<b>Page 1 sur 10</b>
		<b>Date d'entrée en vigueur / taking effect : 10/06/2011</b>	

Date	:	30/07/2014
Référence produit / Product reference	:	FLE040
Huile essentielle de / Essential oil of	:	Geranium Bourbon
Numéro de lot / Lot Number	:	P290614MG
Densité à 20°C (g/cm <sup>3</sup> ) / Density to 20°C (g/cm <sup>3</sup> )	:	0.894
Indice de réfraction / Refractive index	:	1.4675
Pouvoir rotatoire à 20°C / Optical rotation to 20°C	:	-12°
Mode de culture / Culture mode	:	Cultivé / Cultivated
Pays / Country	:	Madagascar
Date de production / Production date	:	29/06/2014
D.L.U. / Shelf life	:	29/06/2019
Mode d'extraction / Extraction mode	:	Distillation à la vapeur / Steam distillation
% Bio / % Organic	:	100% Bio / 100% Organic
Nom Latin / Latin Name	:	Pelargonium X. Asperum
Parties utilisées / Used Parts	:	Feuilles - Leaves



Molécule	%
ACETONE	0.010
DIMETHYL HEPTADIENE	0.020
2-METHYL BUTANAL	0.01
ISOVALERALDEHYDE	0.010
ETHANOL	0.05
2-ETHYL FURANE	0.01
METHYL PROPENYL CYCLOPENTANE	0.01
TRICYCLENE	0.010
ALPHA-PINENE	0.740
ALPHA-THUYENE	0.05
<b>TOLUENE **</b>	0.010
ALPHA-FENCHENE	0.010
CAMPHENE	0.010
BETA-PINENE + OXYDE DE DEHYDROXYLINALOL A	0.170
SABINENE	0.100
TERPENE ISOMERE	0.04
BETA-MYRCENE	0.270
ALPHA-PHELLANDRENE	0.130
ALPHA-TERPINENE	0.040
3-METHYL BUTANOL	0.010
2,3-DEHYDRO-1,8-CINEOLE	0.010

Molécule	%
ALCOOL ISOAMYLIQUE	0.010
<b>LIMONENE *</b>	0.240
CIS-ARBUSCULONE	0.010
BETA-PHELLANDRENE + 1,8-CINEOLE	0.850
2-HEXANAL	0.010
CIS-BETA-OCIMENE	0.250
TRANS-ARBUSCULONE	0.030
GAMMA-TERPINENE	0.060
TRANS-BETA-OCIMENE	0.240
PARA-CYMENE	0.100
TERPINOLENE	0.080
CYCLOHEXYL ETHANONE	0.020
METHYL PENTANOL	0.02
PINOL	0.010
3-METHYL CYCLOHEXANONE	0.010
6-METHYL-5-HEPTEN-2-ONE	0.050
1-HEXANOL	0.010
ALCOOL CYCLOTERPENIQUE	0.010
CIS-OXYDE DE ROSE	0.700
TRANS-OXYDE DE ROSE	0.26
3-HEXEN-1-OL	0.04

Molécule	%
ALCOOL CYCLOTERPENIQUE	0.020
CIS-PARA-MENTHANE-3,8-DIOL	0.02
PERILLENE	0.010
TRANS-PARA-MENTHANE-3,8-DIOL	0.01
CETONE TERPENIQUE	0.040
CIS-OXYDE DE LINALOL	0.200
1-OCTEN-3-OL	0.010
6-METHYL-5-HEPTEN-2-OL	0.020
ALPHA-CUBEBENE	0.100
TRANS-OXYDE DE LINALOL	0.060
MENTHONE	0.670
SESQUITERPENE	0.020
CITRONELLAL	0.050
ISOGERANIAL	0.030
YLANGENE	0.080
SESQUITERPENE	0.010
ALPHA-COPAENE	0.100
ISOMENTHONE	7.510
ISONERAL	0.060
ALPHA-BOURBONENE	0.080
BETA-BOURBONENE	1.070



Molécule	%
ALPHA-GURJUNENE	0.050
<b>LINALOL *</b>	7.290
SESQUITERPENE	0.030
1-OCTANOL	0.030
TRANS-PARA-MENTH-2-EN-1-OL	0.020
DIMETHYL SULFOXYDE DMSO	0.020
NEOISOPULEGOL	0.040
ISOPULEGOL	0.02
EPSILONE-CADINENE	0.160
ALPHA-TRANS-BERGAMOTENE	0.17
NEOMENTHOL	0.020
BETA-ELEMENE	0.100
ALPHA-GUAIENE	0.630
BETA-CUBEBENE	0.110
TERPINENE-4-OL	0.110
BETA-CARYOPHYLLENE	1.510
6,9-GUAIADIENE	7.230
AROMADENDRENE	0.010
FORMIATE DE CITRONELLYLE	8.660
SESQUITERPENE	0.040
BETA-MAALIENE	0.300



Molécule	%
NEOISOMENTHOL	0.410
CADINA-3,5-DIENE	0.110
SESQUITERPENE	0.050
CADINADIENE ISOMERE	0.130
ALLO-AROMADENDRENE	0.160
ACETATE DE CITRONELLYLE	0.220
(E)-BETA-FARNESENE	0.040
ZONARENE	0.150
FORMIATE DE NERYLE	0.300
OCIMENOL ISOMERE	0.110
EPI-ZONARENE	0.200
ALPHA-HUMULENE	0.410
GAMMA-SELINENE	0.070
<b>NERAL *</b>	0.420
GAMMA-MUUROLENE	0.100
ALPHA-TERPINEOL	0.750
ACETATE DE TERPENYLE	0.020
LEDENE	0.070
FORMIATE DE GERANYLE	4.790
EREMOPHILENE	0.120
GERMACRENE D + VERBENONE	1.300

Molécule	%
PROPIONATE DE CITRONELLYLE	0.140
MUROLADIENE ISOMERE	0.310
MENTHADIENOL ISOMERE	0.190
BETA-SELINENE + ALPHA-MUROLENE	0.180
ALPHA-SELINENE + COMPOSE Mw =220	0.170
GERANIAL	0.670
PIPERITONE	0.120
BICYCLOGERMACRENE	0.040
(E,E)-ALPHA-FARNESENE	0.070
ACETATE DE GERANYLE	0.360
DELTA-SELINENE	0.180
CITRONELLOL + DELTA-CADINENE	23.460
GAMMA-CADINENE	0.230
PROPIONATE DE NERYLE	0.030
CADINA-1,4-DIENE	0.050
NEROL	0.860
BUTYRATE DE CITRONELLYLE	0.450
ESTER CITRONELLIQUE	0.040
BUTYRATE DE NERYLE	0.280
PROPIONATE DE GERANYLE	0.770
METHYLBUTYRATE DE CITRONELLYLE	0.020

Molécule	%
PROPIONATE TERPENIQUE	0.020
GERANIOL + CALAMENENE	13.940
PROPIONATE TERPENIQUE	0.030
ISOBUTYRATE DE GERANYLE	0.060
CIS-MYRTANOL	0.050
TRANS-MYRTANOL	0.150
ISOGERANIOL ISOMERE	0.020
ISOBUTYRATE DE 2-PHENYLETHYLE	0.090
BUTYRATE DE 2-PHENYLETHYLE	0.060
BUTYRATE DE GERANYLE	0.930
METHYLBUTYRATE DE NERYLE	0.260
METHYLBUTYRATE DE GERANYLE	0.050
CALACORENE	0.030
ESTER CITRONELLIQUE	0.030
CETONE ALIPHATIQUE	0.010
FUROPOLARGONE ISOMERE	0.090
ESTER PHENYLETHYLIQUE	0.060
ESTER GERANIQUE	0.080
SESQUITERPENOL	0.050
OXYDE DE CARYOPHYLLENE	0.140
TIGLATE DE CITRONELLYLE	0.200





Molécule	%
ESTER GERANIQUE	0.050
GERMACRADIENOL ISOMERE	0.020
ISOVALERATE DE GERANYLE	0.140
EPOXY-6,7-HUMULENE	0.040
GLEENOL	0.060
EPI-CUBENOL	0.150
CUBENOL	0.120
CAPROATE DE GERANYLE	0.090
FUROPOLARGONE Mw=234	0.360
ESTER PHENYLETHYLIQUE	0.040
TIGLATE DE GERANYLE	1.140
ESTER NERIQUE	0.070
SPATHULENOL	0.020
ESTER GERANIQUE	0.040
ESTER GERANIQUE	0.020
GAMMA-EUDESOL	0.020
ESTER GERANIQUE	0.020
ALPHA-MUUROLOL	0.080
TIGLATE DE BETA-PHENYLETHYLE	0.430
GUAIOL ISOMERE Mw=222	0.040
SESQUITERPENOL	0.040



Molécule	%
ALPHA-CADINOL	0.100
BETA-EUDESOL	0.010
ESTER GERANIQUE	0.020
SESQUITERPENOL	0.030
ACIDE CITRONELLIQUE	0.050
ACIDE GERANIQUE	0.190
ESTER GERANIQUE	0.020
SESQUITERPENOL	0.040
SESQUITERPENOL	0.030
<b>Total</b>	<b>99.830</b>

\* = Substance(s) allergène(s) / allergen(s)

\*\* = Substance(s) classée(s) CMR / Substance(s) classified as CMR

