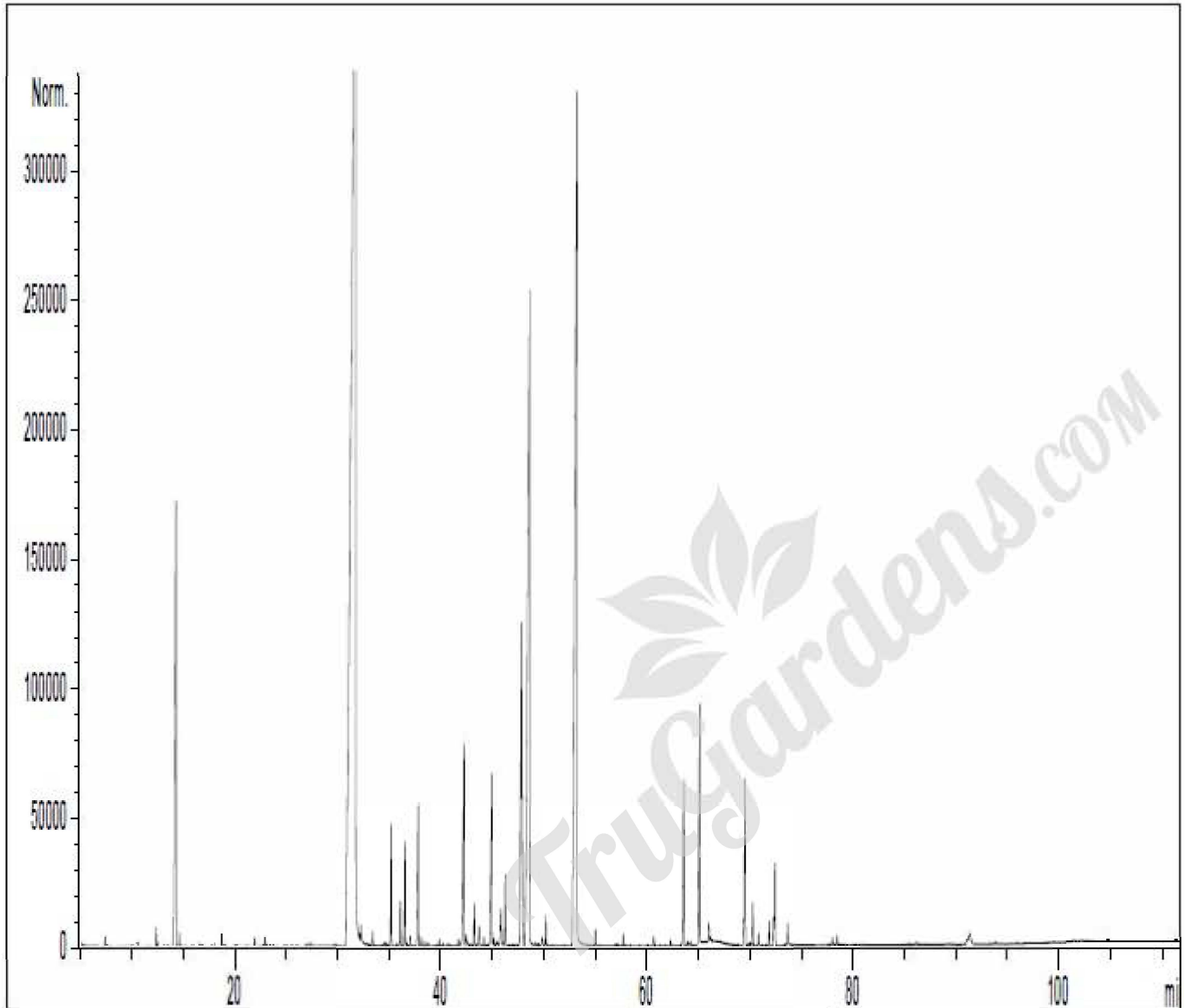


GCMS ANALYSIS

PRODUCT NAME: CITRONELLA JAVA ESSENTIAL OIL - 11229

DATE: May 2, 2016



Due to volume turnover, this report is not lot specific. It is representative of the quality of this oil produced by the manufacturer of this product. Specific lots may vary slightly as is the case in natural products.

PRODUCT NAME: CITRONELLA JAVA ESSENTIAL OIL - 11229

| Peak | RT (min) | COMPONENT name | % | Norm (%) | Allergens (%) |
|------|----------|--------------------------------------|-------|----------|---------------|
| 1 | 5,1 | CYCLOPENTANE, 1-METHYL-1-METHYLETHYL | 0,01 | | |
| 2 | 7,4 | α -PINENE | 0,03 | | |
| 3 | 7,5 | α -THUYENE | 0,01 | | |
| 4 | 10,1 | β -PINENE | 0,01 | | |
| 5 | 10,5 | SABINENE | 0,02 | | |
| 6 | 12,3 | β -MYRCENE | 0,08 | | |
| 7 | 12,5 | α -PHELLANDRENE | 0,02 | | |
| 8 | 13,2 | α -TERPINENE | 0,01 | | |
| 9 | 14,3 | LIMONENE | 4,12 | | 4,12 |
| 10 | 14,6 | β -PHELLANDRENE | 0,05 | | |
| 11 | 16,6 | γ -TERPINENE | 0,02 | | |
| 12 | 16,9 | Trans- β -OCIMENE | 0,01 | | |
| 13 | 18,0 | p-CYMENE | 0,01 | | |
| 14 | 18,7 | TERPINOLENE | 0,07 | | |
| 15 | 19,0 | OCTANAL | 0,01 | | |
| 16 | 20,1 | 2-BUTEN-1-OL, 3-METHYL | 0,01 | | |
| 17 | 21,9 | 6-METHYL-5-HEPTEN-2-ONE | 0,05 | | |
| 18 | 22,9 | 5-HEPTANAL, 2,6-DIMETHYL- | 0,06 | | |
| 19 | 23,0 | ROSE, cis-OXIDE | 0,01 | | |
| 20 | 23,7 | ROSE, trans-OXIDE | 0,01 | | |
| 21 | 24,9 | ANISALDEHYDE TRIMETHYL | 0,01 | | |
| 22 | 27,0 | Cis-p-MENTHANE-3,8-DIOL | 0,02 | | |
| 23 | 27,3 | Trans-p-MENTHANE-3,8-DIOL | 0,03 | | |
| 24 | 29,6 | α -CUBEBENE | 0,01 | | |
| 25 | 29,8 | MENTHONE | 0,03 | | |
| 26 | 31,7 | CITRONELLAL | 44,48 | | |
| 27 | 32,1 | DECANAL | 0,02 | | |
| 28 | 32,3 | ISOMENTHONE | 0,10 | | |
| 29 | 33,4 | β -BOURBONENE | 0,07 | | |
| 30 | 34,5 | MENTHENIC COMPONENT | 0,03 | | |
| 31 | 34,7 | β 1-CUBEBENE | 0,05 | | |
| 32 | 35,2 | LINALOOL | 0,73 | | 0,73 |
| 33 | 35,8 | 1-OCTANOL | 0,03 | | |
| 34 | 36,1 | NEOISOPULEGOL | 0,28 | | |
| 35 | 36,5 | ISOPULEGOL | 0,70 | | |
| 36 | 36,7 | α -CADINENE | 0,04 | | |
| 37 | 37,1 | SESQUITERPENE | 0,07 | | |
| 38 | 37,3 | α -trans-BERGAMOTENE | 0,01 | | |
| 39 | 37,8 | β -ELEMENE | 1,22 | | |
| 40 | 38,1 | β -CUBEBENE | 0,07 | | |
| 41 | 38,5 | TERPINENE-4-OL | 0,03 | | |
| 42 | 38,8 | β -CARYOPHYLLENE | 0,04 | | |
| 43 | 39,3 | CITRONELLYL FORMIATE | 0,01 | | |
| 44 | 39,6 | TERPENIC ALCOHOL | 0,01 | | |
| 45 | 39,8 | ISOPULEGOL ISOMER | 0,05 | | |

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PRODUCT NAME: CITRONELLA JAVA ESSENTIAL OIL - 11229

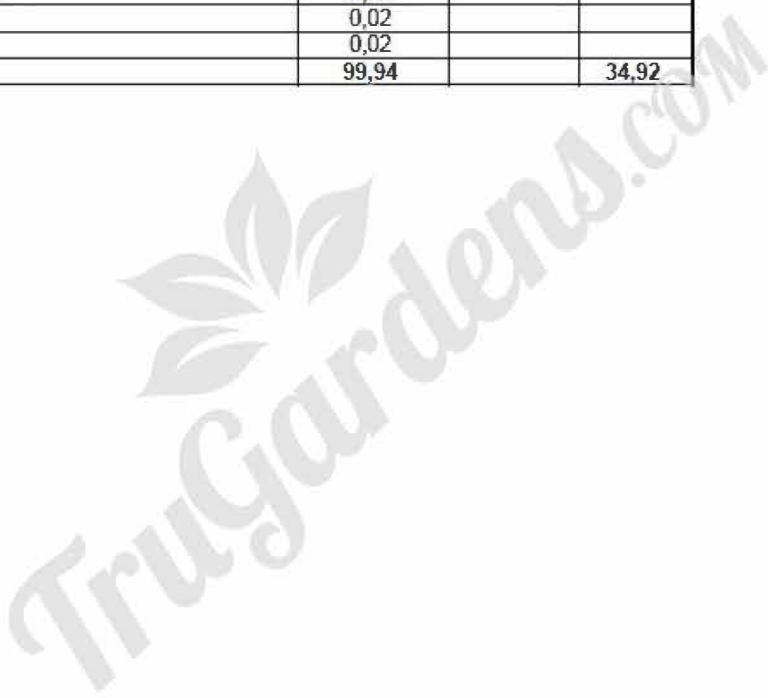
| Peak | RT (min) | COMPONENT name | % | Norm (%) | Allergens (%) |
|------|----------|-------------------------------|-------|----------|---------------|
| 46 | 40,2 | CADINA-3,5-DIENE | 0,03 | | |
| 47 | 40,6 | GERMACRENE A | 0,04 | | |
| 48 | 41,7 | ZONARENE | 0,06 | | |
| 49 | 42,2 | CITRONELLYL ACETATE | 2,06 | | |
| 50 | 42,5 | α -HUMULENE | 0,11 | | |
| 51 | 41,6 | Cis-4,5-MUUROLADIENE | 0,04 | | |
| 52 | 42,8 | γ -SELINENE | 0,04 | | |
| 53 | 43,3 | NERAL | 0,30 | | 0,30 |
| 54 | 43,7 | γ -MUUROLENE | 0,17 | | |
| 55 | 44,2 | α -TERPINEOL | 0,06 | | |
| 56 | 44,4 | GERANYL FORMIATE | 0,02 | | |
| 57 | 45,0 | GERMACRENE D | 1,79 | | |
| 58 | 45,2 | CUBEBENE ISOMER | 0,07 | | |
| 59 | 45,4 | MUUROLENE ISOMERE | 0,02 | | |
| 60 | 45,5 | β -SELINENE | 0,04 | | |
| 61 | 45,8 | α -MUUROLENE | 0,40 | | |
| 62 | 46,3 | GERANIAL | 0,51 | | 0,51 |
| 63 | 47,8 | GERANYL ACETATE | 3,78 | | |
| 64 | 48,6 | CITRONELLOL | 11,13 | | 11,13 |
| 65 | 48,7 | δ -CADINENE | 0,05 | | |
| 66 | 48,8 | γ -CADINENE | 0,20 | | |
| 67 | 49,2 | γ -GERANIOL | 0,04 | | |
| 68 | 49,5 | CADINA-1,4-DIENE | 0,02 | | |
| 69 | 49,8 | NEROL | 0,18 | | |
| 70 | 50,2 | α -AMORPHENE | 0,10 | | |
| 71 | 50,6 | Cis-ISOGERANIOL | 0,01 | | |
| 72 | 50,9 | ISOGERANIOL | 0,01 | | |
| 73 | 53,2 | GERANIOL | 16,94 | | 16,94 |
| 74 | 55,0 | Epi-CUBEBOL | 0,11 | | |
| 75 | 55,3 | OXO HYDROXY KETONIC COMPONENT | 0,01 | | |
| 76 | 56,9 | α -CALACORENE | 0,01 | | |
| 77 | 57,2 | CYCLOCARBOXYLATE ESTER | 0,02 | | |
| 78 | 57,7 | CUBEBOL | 0,07 | | |
| 79 | 59,3 | CUBENBOL ISOMER | 0,01 | | |
| 80 | 60,1 | CUBEBOL ISOMER | 0,01 | | |
| 81 | 60,6 | CARYOPHYLLENE EPOXIDE | 0,08 | | |
| 82 | 61,3 | METHYLEUGENOL | 0,01 | | |
| 83 | 62,3 | SESQUITERPENOL | 0,04 | | |
| 84 | 63,5 | GERMACRA-1,5-DIEN-4-OL | 1,40 | | |
| 85 | 63,9 | Epi-CUBENOL | 0,04 | | |
| 86 | 64,2 | CUBENOL | 0,05 | | |
| 87 | 65,1 | ELEMOL | 3,35 | | |
| 88 | 66,0 | 8-epi- γ -EUDESMOL | 0,13 | | |
| 89 | 66,2 | SESQUITERPENOL | 0,02 | | |
| 90 | 69,4 | EUGENOL | 1,12 | | 1,12 |

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PRODUCT NAME: CITRONELLA JAVA ESSENTIAL OIL - 11229

| Peak | RT (min) | COMPONENT name | % | Norm (%) | Allergens (%) |
|------|----------|------------------------|--------------|----------|---------------|
| 91 | 69,5 | T-CADINOL | 0,30 | | |
| 92 | 69,8 | γ-EUDESMO | 0,03 | | |
| 93 | 70,0 | α-MUUROLOL | 0,03 | | |
| 94 | 70,3 | CADINOL ISOMER | 0,29 | | |
| 95 | 70,8 | δ-CADINOL | 0,08 | | |
| 96 | 71,9 | α-EUDESMO | 0,16 | | |
| 97 | 72,3 | β-EUDESMO | 0,20 | | |
| 98 | 72,4 | α-CADINOL | 0,57 | | |
| 99 | 73,6 | CITRONELIC ACID | 0,22 | | |
| 100 | 78,0 | FARNESOL | 0,07 | | 0,07 |
| 101 | 78,5 | GERANYLGERANIOL | 0,07 | | |
| 102 | 86,2 | EUGENOL METHOXY | 0,02 | | |
| 103 | 91,4 | AROMATIC COMPONENT | 0,30 | | |
| 104 | 93,9 | PHENOL ETHER COMPONENT | 0,02 | | |
| 105 | 99,5 | ALIPHATIC ALCOHOL | 0,01 | | |
| 106 | 101,4 | AROMATIC COMPONENT | 0,03 | | |
| 107 | 102,2 | AROMATIC COMPONENT | 0,02 | | |
| 108 | 104,7 | AROMATIC COMPONENT | 0,02 | | |
| 109 | 106,0 | ALIPHATIC ALCOHOL | 0,02 | | |
| 110 | 111,3 | BENZYL COMPONENT | 0,02 | | |
| | | TOTAL | 99,94 | | 34,92 |



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