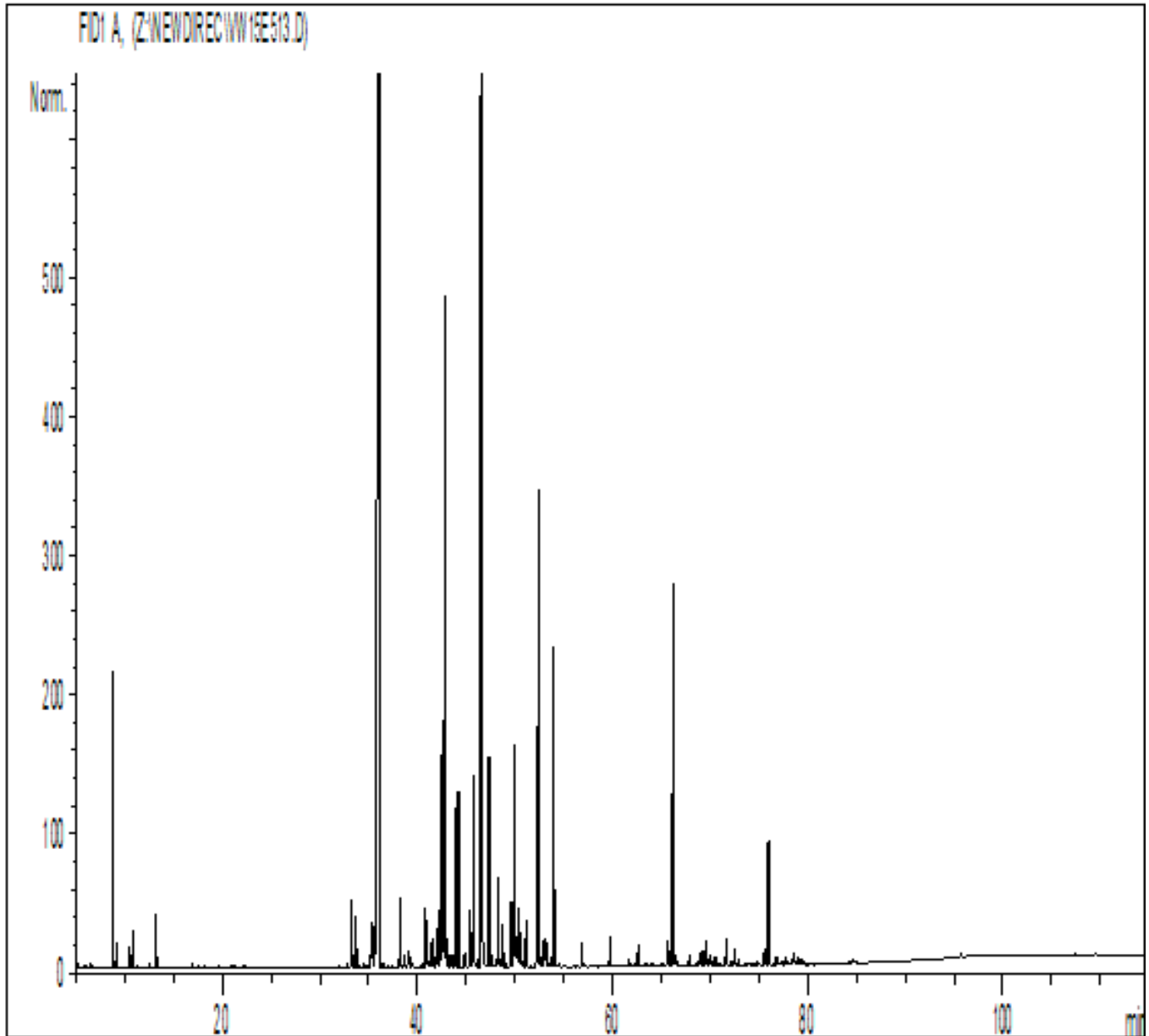


GCMS ANALYSIS

Product Name: Valerian Root Essential Oil
Date: July 20, 2016



Product Name: Valerian Root Essential Oil Cont'd
Date: July 20,2016

| Peak | RT(min) | COMPONENT name | % |
|------|---------|------------------------------------|--------------|
| 1 | 5.1 | ACETONE | 0.02 |
| 2 | 6 | NEOBUTANOL | 0.02 |
| 3 | 6.5 | BUTANAL,2-METHYL | 0.02 |
| 4 | 6.6 | ISOVALERALDEHYDE | 0.02 |
| 5 | 8.8 | TRICYCLEN | 0.01 |
| 6 | 8.9 | METHYL ISOVALERATE | 1.48 |
| 7 | 9.2 | α -PINENE | 0.14 |
| 8 | 10.5 | α -FENCHENE | 0.14 |
| 9 | 10.9 | CAMPHENE | 0.24 |
| 10 | 12.6 | β -PINENE | 0.03 |
| 11 | 13.3 | METHYL, 3-METHYLPENTANOATE | 0.34 |
| 12 | 17 | LIMONENE | 0.04 |
| 13 | 17.6 | 1,8-CINEOLE | 0.01 |
| 14 | 18.2 | 2-HEXENAL | 0.01 |
| 15 | 19.7 | γ -TERPINENE | 0.02 |
| 16 | 20.8 | FURANONE, DIHYDRO-2-METHYL | 0.02 |
| 17 | 21.2 | p-CYMENE | 0.02 |
| 18 | 22.3 | ISOAMYL ISOVALERATE | 0.03 |
| 19 | 32 | α ,p-DIMETHYLSTYRENE | 0.01 |
| 20 | 32.8 | ACETIC ACID | 0.03 |
| 21 | 33.3 | FURFURAL | 0.76 |
| 22 | 33.7 | α -CUBEBENE | 0.49 |
| 23 | 34.4 | SESQUITERPENE | 0.06 |
| 24 | 34.8 | δ -ELEMENE | 0.04 |
| 25 | 35.4 | β -PATCHOULENE | 0.88 |
| 26 | 36 | α-COPAENE | 28.38 |
| 27 | 36.5 | SESQUITERPENE | 0.05 |
| 28 | 37.3 | SESQUITERPENE | 0.03 |
| 29 | 38.2 | α -GURJUNENE | 0.75 |
| 30 | 38.6 | HIMACHALENE ISOMER | 0.16 |

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Product Name: Valerian Root Essential Oil Cont'd
Date: July 20,2016

| Peak | RT(min) | COMPONENT name | % |
|------|---------|---------------------------------|--------------|
| 31 | 39 | β1-CUBEBENE | 0.16 |
| 32 | 39.2 | MAALIENE ISOMER | 0.12 |
| 33 | 39.5 | SESQUITERPENE | 0.05 |
| 34 | 40.5 | FURFURAL METHYL | 0.05 |
| 35 | 40.8 | α-SANTALENE | 0.89 |
| 36 | 41.2 | SESQUITERPENE | 0.11 |
| 37 | 41.4 | BORNYL ACETATE | 0.24 |
| 38 | 41.6 | α-Trans-bergamotene | 0.32 |
| 39 | 42 | β-ELEMENE | 0.48 |
| 40 | 42.2 | α-GUAIENE | 0.61 |
| 41 | 42.5 | CALARENE | 3.37 |
| 42 | 42.9 | β-CARYOPHYLLENE | 11.06 |
| 43 | 43.1 | GURJUNENE ISOMER | 0.28 |
| 44 | 43.3 | AROMADENDRENE | 0.16 |
| 45 | 43.9 | CARYOPHYLLENE ISOMER | 1.54 |
| 46 | 44.2 | GURJUNENE ISOMER | 1.78 |
| 47 | 44.8 | CADINA-3,5-DIENE | 0.16 |
| 48 | 45.4 | α-PATCHOULENE | 0.64 |
| 49 | 45.6 | γ-GURJUNENE | 0.22 |
| 50 | 45.8 | SEYHELLENE + ALLO-AROMADENDRENE | 2.09 |
| 51 | 46.3 | SESQUITERPENE | 0.09 |
| 52 | 46.5 | ISOVALERIANIC ACID | 10.3 |
| 53 | 46.7 | ZONARENE | 0.35 |
| 54 | 47.3 | α-HUMULENE | 2.41 |
| 55 | 47.5 | γ-SELINENE | 0.18 |
| 56 | 47.9 | SESQUITERPENE | 0.03 |
| 57 | 48.3 | γ-MUUROLENE | 0.93 |
| 58 | 48.4 | CALARENE ISOMER | 0.09 |
| 59 | 48.7 | LEDENE | 0.49 |
| 60 | 49 | ACIPHYLLENE (GUAI-4,11-DIENE) | 0.04 |

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Product Name: Valerian Root Essential Oil Cont'd
Date: July 20,2016

| Peak | RT(min) | COMPONENT name | % |
|------|---------|----------------------------------|-------------|
| 61 | 49.6 | GERMACRENE D | 0.7 |
| 62 | 49.9 | α - BULNESENE | 2.58 |
| 63 | 50.2 | SESQUITERPENE | 0.33 |
| 64 | 50.3 | β -SELINENE | 0.35 |
| 65 | 50.4 | α -MUUROLENE | 0.32 |
| 66 | 50.6 | α -SELINENE | 0.33 |
| 67 | 50.8 | SESQUITERPENE | 0.06 |
| 68 | 51.2 | BICYCLOGERMACRENE | 0.47 |
| 69 | 52.4 | δ - CADIENE | 6.56 |
| 70 | 52.6 | γ -CADIENE | 0.11 |
| 71 | 53 | SELINADIENE ISOMER | 0.34 |
| 72 | 53.2 | SESQUITERPENE Mw=202 | 0.28 |
| 73 | 53.4 | COMPONENT Mw=222 | 0.04 |
| 74 | 53.7 | ETHANONE, TRIMETHYLPHENYL | 0.11 |
| 75 | 54 | METHYLVALERIANIC ACID | 3.17 |
| 76 | 55.5 | CADINA-1,4-DIENE | 0.05 |
| 77 | 56.1 | SESQUITERPENE Mw=202 | 0.03 |
| 78 | 56.9 | CALAMENENE | 0.24 |
| 79 | 57.1 | SESQUITERPENE Mw=202 | 0.03 |
| 80 | 58.4 | BENZENE, DIMETHYLETHYL DIMETHOXY | 0.01 |
| 81 | 58.6 | BORNYL ESTER | 0.02 |
| 82 | 59.7 | Epi-CUBERBOL | 0.29 |
| 83 | 61.7 | α -CALACORENE | 0.07 |
| 84 | 62.2 | HUMELENE EPOXIDE | 0.03 |
| 85 | 62.6 | CUBEBOL | 0.2 |
| 86 | 63.4 | VALRANONE ISOMER | 0.04 |
| 87 | 65 | SESQUITERPENOL | 0.02 |
| 88 | 65.7 | CARYOPHYLLENE EPOXIDE | 0.28 |
| 89 | 66.2 | Epi-GLOBULOL | 4.47 |
| 90 | 66.5 | SESQUITERPENOL | 0.12 |

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Product Name: Valerian Root Essential Oil Cont'd
Date: July 20,2016

| Peak | RT(min) | COMPONENT name | % |
|------|---------|---------------------------|------|
| 91 | 67.6 | GERMACRADIENOL ISOMER | 0.03 |
| 92 | 67.8 | LEDOL | 0.11 |
| 93 | 68.7 | Epoxy-6,7-HUMULENE | 0.05 |
| 94 | 69 | CARYOPHYLLENOL + GLEENOL | 0.12 |
| 95 | 69.3 | Epi-CUBENOL | 0.14 |
| 96 | 69.6 | CUBENOL | 0.24 |
| 97 | 69.9 | AROMATIC COMPONENT Mw-262 | 0.07 |
| 98 | 70.1 | GLOBULOL | 0.07 |
| 99 | 70.6 | VIRIDIFLOROL | 0.13 |
| 100 | 71 | SESQUITERPENOL | 0.05 |
| 101 | 71.7 | 1--epi-γ--EUDESMOL | 0.29 |
| 102 | 72.1 | ROSIFOLIOL | 0.06 |
| 103 | 72.5 | SPATHULLENOL | 0.2 |
| 104 | 73 | SESQUITERPENOL | 0.06 |
| 105 | 74 | BULNESOL ISOMER | 0.02 |
| 106 | 74.8 | SESQUITERPENOL | 0.06 |
| 107 | 75.6 | T-CADINOL | 0.16 |
| 108 | 76 | PATCHOULOL | 1.4 |
| 109 | 76.1 | SESQUITERPENOL | 0.08 |
| 110 | 76.8 | SESQUITERPENOL + POGOSTOL | 0.15 |
| 111 | 77.4 | SESQUITERPENOL | 0.09 |
| 112 | 77.8 | α-CADINOL | 0.1 |
| 113 | 78.4 | ISOSPATHULENOL | 0.07 |
| 114 | 78.7 | SESQUITERPENOL Mw=220 | 0.14 |
| 115 | 79.1 | EUDESMA-7-EN-4-OL | 0.11 |
| 116 | 79.5 | β-NOOTKATOL | 0.08 |
| 117 | 80.5 | OXYGENED COMPONENT | 0.02 |
| 118 | 82.9 | AROMATIC COMPONENT | 0.03 |
| 119 | 84.3 | SESQUITERPENOL Mw=220 | 0.03 |
| 120 | 84.7 | AROMATIC COMPONENT | 0.04 |

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Product Name: Valerian Root Essential Oil Cont'd
Date: July 20,2016

| Peak | RT(min) | COMPONENT name | % |
|------|---------|------------------------|--------------|
| 121 | 86.8 | SESQUITERPENIC EPOXIDE | 0.03 |
| 122 | 95.7 | SESQUITERPENOL Mw=220 | 0.05 |
| 123 | 107.5 | AROMATIC COMPONENT | 0.03 |
| 124 | 109.5 | PALMITIC ACID | 0.03 |
| | | TOTAL | 99.48 |

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