

Appalachian Valley Natural Products

(301)746-4630

260 Maple Street

Friendsville, MD 21531

www.AV-AT.com

John@AV-AT.com

| Certificate of Analysis:  |                          |
|---------------------------|--------------------------|
| Oil Name:                 | Damiana                  |
| Botanical Name:           | <i>(Turnera diffusa)</i> |
| Lot Number:               | MEP4-PS                  |
| Country:                  | Mexico                   |
| Name:                     | Area%                    |
| Furan <2-ethyl>           | 0.03                     |
| Isovalerate <ethyl>       | 0.16                     |
| Pinene <alpha>            | 1.62                     |
| Verbenene                 | 0.18                     |
| Pinene <beta>             | 0.51                     |
| Myrcene                   | 0.18                     |
| 3-Carene                  | 0.10                     |
| Terpinene <alpha>         | 0.12                     |
| p-Cymene                  | 1.38                     |
| Limonene                  | 0.12                     |
| 1,8-cineole               | 31.67                    |
| Terpinene <gamma>         | 0.35                     |
| Linalool                  | 0.15                     |
| Campholenal <alpha>       | 0.15                     |
| Pinocarveol <trans->      | 0.23                     |
| Verbenol <trans>          | 0.27                     |
| Pinocarvone               | 0.11                     |
| Terpinen-4-ol             | 0.13                     |
| Terpineol <alpha->        | 0.28                     |
| Myrtenol                  | 0.22                     |
| Verbenone                 | 0.11                     |
| Carveol <trans->          | 0.11                     |
| Methyl thymol ether       | 0.11                     |
| Thymol                    | 1.05                     |
| Carvacrol                 | 0.28                     |
| Tiglate <hexyl>           | 0.10                     |
| Elemene <delta>           | 0.11                     |
| Terpinyl acetate <alpha-> | 0.33                     |
| Cubebene <alpha>          | 0.64                     |
| Isolatedene               | 1.08                     |

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|                               |      |
|-------------------------------|------|
| Copaene <alpha>               | 1.09 |
| Bourbonene <beta>             | 0.17 |
| Cubebene <beta>               | 0.54 |
| Elemene <beta>                | 0.29 |
| Gurjunene <alpha>             | 0.37 |
| Caryophyllene <trans>         | 0.94 |
| Copaene <beta>                | 0.28 |
| Guanidiene <6,9>              | 0.62 |
| Neryl acetone                 | 0.19 |
| Murrola-3,5-diene <trans>     | 0.51 |
| Humulene <alpha>              | 0.37 |
| Caryophyllene<9-epi>isomer    | 0.52 |
| Ocimene <neoallo>             | 0.64 |
| Aristolochene <4,5-diepi>     | 2.89 |
| Cadina-1(6),4-diene <cis>     | 0.35 |
| Cadina-1(6),4-diene <trans>   | 1.02 |
| Amorphene <alpha>             | 0.22 |
| Damiana ester                 | 8.36 |
| Selinene <delta>              | 1.58 |
| Selinene <beta>               | 0.78 |
| Epi-bicyclosesquiphellandrene | 0.85 |
| Murolene <gamma>              | 1.26 |
| Murolene <alpha->             | 1.17 |
| Bulnesene <alpha>             | 0.16 |
| Dihydroagarofuran isomer      | 1.60 |
| Dihydroagarofuran <4-epi-cis> | 0.52 |
| Cadinene <gamma>              | 0.70 |
| Cadinene isomer               | 0.95 |
| Cadinene <delta>              | 4.49 |
| Calamenene <cis>              | 0.30 |
| Zonarene                      | 0.18 |
| Cadina-1,4-diene<trans>       | 0.48 |
| Calacorene <alpha>            | 0.72 |
| Nerolidol                     | 2.19 |
| Damiana unknown               | 0.84 |
| Caryophyllene oxide           | 3.39 |
| Oplopenone                    | 1.23 |
| Ledol                         | 1.35 |
| Humulene epoxide II           | 0.54 |
| Damiana sesquiterpene         | 1.17 |
| Juniper camphor               | 4.81 |



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|                           |      |
|---------------------------|------|
| Cubenol <1-epi>           | 1.25 |
| Cadinol isomer            | 0.18 |
| Cadinol <alpha>           | 0.37 |
| (-)-Aristolene            | 0.86 |
| Valerianol                | 0.46 |
| Damiana sesquiterpenol    | 0.50 |
| Damiana azulene           | 0.22 |
| Juniper camphor isomer    | 0.41 |
| Neoisolongifolene <8-oxo> | 0.82 |
| Damiana sesquiterpene     | 0.24 |
| Damiana sesquiterpenol    | 0.19 |
| Damiana sesquiterpenol    | 0.18 |
| Damiana sesquiterpene     | 0.98 |
| Isopetasan                | 0.64 |
| Damiana sesquiterpenol    | 0.19 |



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