

**Appalachian Valley Natural Products**

**(301)746-4630**

**260 Maple Street**

**Friendsville, MD 21531**

**www.AV-AT.com**

**John@AV-AT.com**

|                                 |                           |
|---------------------------------|---------------------------|
| <b>Certificate of Analysis:</b> |                           |
| <b>Oil Name:</b>                | Mandarin Green            |
| <b>Botanical Name:</b>          | <i>(Citrus deliciosa)</i> |
| <b>Lot Number:</b>              | ITH12-HS                  |
| <b>Country:</b>                 | Italy                     |
| <b>Name:</b>                    | <b>Area%</b>              |
| alpha-Thujene                   | 0.60                      |
| alpha-Pinene                    | 2.43                      |
| Camphene                        | 0.02                      |
| Sabinene                        | 0.27                      |
| beta-Pinene                     | 1.85                      |
| Myrcene                         | 1.88                      |
| Octanal                         | 0.17                      |
| alpha-Phellandrene              | 0.06                      |
| delta-3-Carene                  | 0.03                      |
| alpha-Terpinene                 | 0.28                      |
| para-Cymene                     | 0.94                      |
| Limonene                        | 69.28                     |
| beta-Phellandrene               | 0.28                      |
| trans-beta-Ocimene              | 0.05                      |
| gamma-Terpinene                 | 20.21                     |
| trans-Sabinene hydrate          | 0.06                      |
| Pinol                           | 0.02                      |
| Terpinolene                     | 0.59                      |
| Linalool                        | 0.12                      |
| cis-Sabinene hydrate            | 0.05                      |
| Nonanal                         | 0.03                      |
| cis-Limonene oxide              | 0.01                      |
| trans-Limonene oxide            | 0.01                      |
| Citronellal                     | 0.01                      |
| Terpinen-4-ol                   | 0.05                      |
| alpha-Terpineol                 | 0.13                      |
| Decanal                         | 0.04                      |

Appalachian Valley  
Natural Products  
Anatolian Treasures

|                              |      |
|------------------------------|------|
| Perillaldehyde               | 0.01 |
| Thymol                       | 0.02 |
| Methyl N-methyl anthranilate | 0.35 |
| Dodecanal                    | 0.01 |
| beta-Caryophyllene           | 0.05 |
| alpha-Selinene               | 0.01 |
| trans,trans-alpha-Franesene  | 0.06 |
| alpha-Sinensal               | 0.02 |

