



Appalachian Valley
Natural Products
Anatolian Treasures

260 Maple St. PO Box 515
Friendsville MD 21531
(301)746-4630
GOAVNP.COM

Certificate of Analysis:	
Oil Name:	Ginger Fresh Madagascar
Botanical Name:	<i>(Zingiber officinale)</i>
Lot Number:	MAP10-PG

Name:	Area%
Hexanal	0.03
2-Heptanone	0.05
2-Heptanol	0.09
Tricyclene	0.24
Pinene <alpha>	2.63
Camphene	7.71
Sabinene	0.06
Pinene <beta->	0.39
Hept-5-en-2-one <6-methyl->	0.45
Myrcene	0.97
Octanal	0.03
Pseudolimonene	0.03
Phellandrene <alpha->	0.28
3-Carene	0.04
Cymene <para->	0.11
Limonene	1.44
Phellandrene <beta>	3.80
1,8-cineole	2.98
Terpinene <gamma>	0.10
Terpinolene	0.22
2-Nonanone	0.08
Naginatene <alpha>	0.07
Linalool	0.36
2-Nonanol	0.11
Camphor	0.09
Citronellal	0.06



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Terpineol <trans-beta>	0.03
Isoborneol	0.03
Borneol	0.69
Isocitral <trans>	0.04
Terpinen-4-ol	0.10
Terpineol <alpha->	0.44
Decanal	0.09
Citronellol	0.04
Neral	2.10
Geraniol	0.14
Decenal <2E>	0.05
Geranial	3.25
2-Undecanone	0.20
Elemene <delta->	0.11
Cubebene <alpha>	0.05
Cyclosativene	0.34
Copaene <alpha>	0.49
Elemene <beta>	0.66
Sesquithujene <7-epi->	0.17
Caryophyllene <trans>	0.10
Elemene <gamma>	0.18
Copaene <alpha>	0.05
Bergamotene <trans-alpha>	0.13
Gurjunene <alpha>	0.11
Farnesene<(E)-beta>	0.39
Farnesene<(Z)beta>	0.22
Humulene <alpha>	0.07
Alloaromadendrene	0.31
Cadina-1(6),4-diene <trans>	0.24
.alpha.-Cedrene	0.21
AR-Curcumene	5.97
Germacrene D	0.87
Bisabolene <beta>	0.11



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Gurjunene <alpha->	0.21
Selinene <beta->	0.30
Zingiberene<alpha>	28.67
Selinene <alpha>	1.43
Murrola-4(14),5-diene <trans>	1.99
Farnesene <alpha>	4.28
Bisabolene <beta>	6.00
Cadinene <gamma>	0.32
Cadinene <delta->	0.26
Panasinsen <(-)-.alpha>	0.26
Sesquiphellandrene <beta>	10.77
Bisabolene <E-gamma>	0.35
Germacrene B	0.92
Nerolidol	0.30
Sesquiphellandrene <dimer>	0.63
Eudesmol <tamma->	0.15
Cedran-8-ol	0.59
Eudesmol <alpha>	0.77
Juniper camphor	0.22
Zingiberenol	0.56
Bisabolol <alpha->	0.32
Eudesmol <beta>	0.30