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Balancing Body, Mind and Spirit with Pure Essential Oils

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Spikenard

Nardostachys jatamansi

India

Batch #IN-59017

Monoterpenes 0.5%

β pinene	0.27
α pinene	0.14
limonene	0.03
para-cymene	0.02
α thujene	0.01
sabinene	0.01
δ 3 carene	0.01
γ terpinene	0.01

Monoterpenols 0.04%

terpinen-4-ol	0.02
linalool	0.01
α terpineol	0.01

Ethers 0.1%

1,8 cineole	0.1
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Esters 0.12%

methyl myrtenate	0.05
myrtenyl acetate	0.04
(Z) sesquisabinene hydrat	0.03

Ketones 1.61%

valeranone	1.61
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Phenols 0.08%

methyl carvacrol	0.08
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Sesquiterpenes

β Gurjunene	22.90
gurjunene isomer	5.51
9-epi-(E) caryophyllene	5.42
α Gurjunene	5.20
seychellene	3.1
α guaiene	3.02
α patchoulene	2.06
δ guaiene	1.63
7-epi-α selinene	1.61
β patchoulene	1.34
6,9 guaiadiene	1.24
eremophilene	1.22
α selinene	1.15
(E) β ionone	0.98
γ patchoulene	0.94
Germacrene A	0.76
β selinene	0.73
γ gurjunene	0.65
β elemene	0.49
1-epi-bicyclosesquiphellandrene	0.39
δ patchoulene	0.32
cuparene	0.26
γ cadinene	0.16
daucene	0.12
selina-3,7(11) diene	0.11
α copaene	0.10
γ muurolene	0.1
ar-curcumene	0.07

Sesquiterpenes cont 61.86%

δ elemene	0.06
α cubebene	0.05
β curcumene	0.05
β sesquiphellandrene	0.03
α cadinene	0.03
α calacorene	0.03
β bisabolene	0.02
7-epi sesquithujene	0.01

Sesquiterpenols 13.46%

patchouli alcohol	5.78
maaliol	1.77
spathulenol	1.32
globulol	1.11
pogostol	0.75
viridiflorol	0.7
α cadinol	0.32
carotol	0.32
isopathulenol	0.31
1,10-di-epi-cubenol	0.25
rosifoliol	0.21
hinesol	0.2
ledol	0.16
α muurolol	0.13
allohimachalol	0.06
cubebol	0.04
longipinanol	0.03

Other 17.3%

Unknown	17.13
isovaleric acid	0.17

Raw Material: Roots

Production Method: steam distillation

Date of Analysis: 2/10/2020

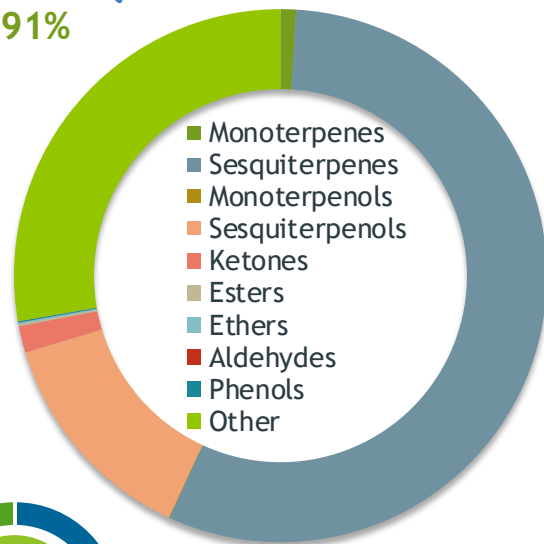
Client	 Nature's Gift	Source	
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Spikenard (Nardostachys jatamansi)
IN-59017

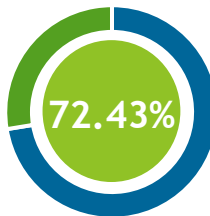
Sample	Spikenard (Nardostachys jatamansi) Batch #:..... IN-59017 Type:..... Essential Oil CAS Number:... 8022-22-8 Nature's Gift	
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Sesquiterpenes

55.91%



Client	 Nature's Gift	Website	
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Percentage Identified

Primary	22.90% <u>beta-Gurjunene</u> 5.78% <u>Patchouli alcohol</u> 5.51% <u>Gurjunene Isomer</u>
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Result	
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Conclusion	No adulterants, Diluents, or contaminants were detected via this method. This oil meets the expected profile for genuine Essential Oil of Spikenard (<i>Nardostachys jatamansi</i>) Internal Number: EVS-3515
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Essential Validation Services

 747 SW 2nd Ave IMB 12 Suite 306
 Gainesville, FL 32601
 317.361.5044 | <https://essentialvalidation.com/>
 adam@essentialvalidation.com


Monoterpenes		0.94%
Sesquiterpenes	55.91%	55.91%
Monoterpenols		0.04%
Sesquiterpenols	13.46%	13.46%
Ketones		1.61%
Esters		0.12%
Ethers		0.10%
Aldehydes		0.00%
Phenols		0.08%
Other	27.75%	27.75%

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- Essential Oil testing is performed by using qualitative GC-MS. Method: SOP.T.01 Client Method
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 - Chromatograph image may be requested
 - This report is valid for 1 year from the analyzed date

Client



Source

Spikenard (*Nardostachys jatamansi*)

IN-59017

Total Percentage		72.43%		
Number	RT	Area %	Compound Name	Chemical Family
1	5.63	0.17%	Isovaleric acid	Aliphatic Acid
2	8.48	0.01%	alpha-Thujene	Monoterpene
3	8.75	0.14%	alpha-Pinene	Monoterpene
4	10.35	0.01%	Sabinene	Monoterpene
5	10.52	0.27%	beta-Pinene	Monoterpene
6	11.89	0.01%	delta-3-Carene	Monoterpene
7	12.59	0.02%	para-Cymene	Monoterpene
8	12.80	0.03%	Limonene	Monoterpene
9	12.91	0.10%	1,8-Cineole	Monoterpene Ether
10	14.14	0.01%	gamma-Terpinene	Monoterpene
11	16.09	0.01%	Linalool	Monoterpenol
12	19.75	0.02%	Terpinen-4-ol	Monoterpenol
13	20.44	0.01%	alpha-Terpineol	Monoterpenol
14	22.49	0.08%	Methyl carvacrol	Phenylpropanoid
15	24.99	0.05%	Methyl myrtenate	Monoterpene Ester
16	26.21	0.04%	Myrtenyl acetate	Monoterpene Ester
17	26.63	0.06%	delta-Elemene	Sesquiterpene
18	27.30	0.05%	alpha-Cubebene	Sesquiterpene
19	28.50	0.10%	alpha-Copaene	Sesquiterpene
20	28.64	0.12%	Daucene	Sesquiterpene
21	28.82	1.34%	beta-Patchoulene	Sesquiterpene
22	29.11	0.49%	beta-Elemene	Sesquiterpene
23	29.85	5.20%	alpha-Gurjunene	Sesquiterpene
24	29.99	5.51%	Gurjunene Isomer	
25	30.16	0.01%	7-epi-Sesquithujene	Sesquiterpene
26	30.28	3.69%	UK Spikenard	
27	30.63	1.59%	UK Spikenard	
28	30.85	22.90%	beta-Gurjunene	Sesquiterpene
29	30.95	1.45%	UK Spikenard	
30	31.03	3.02%	alpha-Guaiene	Sesquiterpene
31	31.27	1.24%	6,9-Guaiadiene	Sesquiterpene
32	31.48	3.10%	Seychellene	Sesquiterpene
33	31.56	0.44%	UK Spikenard	
34	31.79	5.42%	9-epi-(E)-Caryophyllene	Sesquiterpene
35	31.99	2.06%	alpha-Patchoulene	Sesquiterpene

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Client



Source

Spikenard (*Nardostachys jatamansi*)

IN-59017

Number	RT	Area %	Compound Name	Chemical Family
36	32.098	0.94%	gamma-Patchoulene	Sesquiterpene
37	32.24	0.32%	delta-Patchoulene	Sesquiterpene
38	32.51	0.65%	gamma-Gurjunene	Sesquiterpene
39	32.64	0.10%	gamma-Murolene	Sesquiterpene
40	32.78	0.98%	(E)-beta-Ionone	Sesquiterpene
41	32.91	0.07%	ar-Curcumene	Sesquiterpene
42	33.00	0.39%	1-epi-Bicyclosesquiphellandrene	Monoterpene
43	33.15	0.73%	beta-Selinene	Sesquiterpene
44	33.32	1.22%	Eremophilene	Sesquiterpene
45	33.46	1.15%	alpha-Selinene	Sesquiterpene
46	33.60	0.76%	Germacrene A	Sesquiterpene
47	33.73	1.63%	delta-Guaiene	Sesquiterpene
48	34.01	0.02%	beta-Bisabolene	Sesquiterpene
49	34.09	0.05%	beta-Curcumene	Monoterpene
50	34.16	0.16%	gamma-Cadinene	Sesquiterpene
51	34.37	1.61%	7-epi-alpha-Selinene	Sesquiterpene
52	34.51	0.26%	Cuparene	Sesquiterpene
53	34.61	0.03%	beta-Sesquiphellandrene	Sesquiterpene
54	34.93	0.04%	Cubebol	Sesquiterpenol
55	35.08	0.03%	alpha-Cadinene	Sesquiterpene
56	35.25	0.03%	alpha-Calacorene	Sesquiterpene
57	35.54	0.03%	cis-Sesquisabinene hydrate	Monoterpene Ester
58	35.80	0.27%	UK Spikenard	
59	36.04	0.11%	Selina-3,7(11)-diene	Sesquiterpene
60	36.30	1.77%	Maaliol	Sesquiterpenol
61	36.45	0.03%	Longipinanol	Sesquiterpenol
62	36.60	1.32%	Spathulenol	Sesquiterpenol
63	36.83	1.11%	Globulol	Sesquiterpenol
64	36.94	0.70%	Viridiflorol	Sesquiterpenol
65	37.58	0.32%	Carotol	Sesquiterpenol
66	37.65	0.16%	Ledol	Sesquiterpenol
67	37.75	0.21%	Rosifoliol	Sesquiterpenol
68	37.88	0.76%	UK Spikenard	
69	38.50	0.25%	1,10-di-epi-Cubenol	Sesquiterpenol
70	38.60	0.52%	UK Spikenard	
71	38.76	0.31%	Isospathulenol	Sesquiterpenol

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