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*Balancing Body, Mind and Spirit with Pure Essential Oils*

*Since 1995*

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## Siberian Fir

### *Abies Sibirica*

Russia

Batch #RU-59041

#### Monoterpenes 57.2%

|                                 |       |
|---------------------------------|-------|
| camphene                        | 19.57 |
| $\alpha$ pinene                 | 11.05 |
| $\delta$ 3 carene               | 10.84 |
| limonene + $\beta$ phellandrene | 8.57  |
| tricyclene                      | 2.47  |
| $\beta$ pinene                  | 2.25  |
| terpinolene                     | 1.03  |
| myrcene                         | 0.68  |
| para cymene                     | 0.16  |
| $\alpha$ phellandrene           | 0.16  |
| $\gamma$ terpinene              | 0.13  |
| $\alpha$ terpinene              | 0.09  |
| $\alpha$ thujene                | 0.09  |
| isoterpinolene                  | 0.05  |
| para-cymenene                   | 0.03  |
| (Z) $\beta$ ocimene             | 0.02  |
| sabinene                        | 0.01  |

#### Ethers 0.06%

|                     |      |
|---------------------|------|
| methyl thymol       | 0.04 |
| humulene epoxide II | 0.02 |

#### Ketones 0.01%

|               |      |
|---------------|------|
| 2-tridecanone | 0.01 |
|---------------|------|

#### Monoterpenols 0.14%

|             |      |
|-------------|------|
| linalool    | 0.06 |
| 1-dodecanol | 0.06 |
| nerol       | 0.02 |

#### Aldehydes 0.04%

|                  |      |
|------------------|------|
| phellandral      | 0.02 |
| perilla aldehyde | 0.02 |

#### Esthers 33.47%

|                       |       |
|-----------------------|-------|
| bornyl acetate        | 32.95 |
| geranyl acetate       | 0.31  |
| menthyl acetate       | 0.04  |
| neryl acetate         | 0.04  |
| terpinen-4-yl acetate | 0.04  |
| trans-carvyl acetate  | 0.03  |
| dihydrocarvyl acetate | 0.02  |
| fenchyl acetate       | 0.02  |
| citronellyl acetate   | 0.01  |
| dodecyl acaetate      | 0.01  |

#### Phenols 0.01%

|         |      |
|---------|------|
| toluene | 0.01 |
|---------|------|

#### Sesquiterpenes 2.78%

|                         |      |
|-------------------------|------|
| $\beta$ caryophellene   | 1.37 |
| $\alpha$ humulene       | 0.81 |
| $\beta$ bisabolene      | 0.19 |
| $\alpha$ longipinene    | 0.01 |
| $\alpha$ ylangene       | 0.02 |
| sibirene                | 0.04 |
| longifolene             | 0.09 |
| $\alpha$ humachalene    | 0.05 |
| $\beta$ selinene        | 0.03 |
| $\alpha$ chamigrene     | 0.04 |
| $\beta$ himachalene     | 0.04 |
| (E) $\gamma$ bisabolene | 0.09 |

#### Sesquiterpenes 0.4%

|                        |      |
|------------------------|------|
| epi $\alpha$ bisabolol | 0.26 |
| globulol               | 0.05 |
| longipinanol           | 0.05 |
| (E) nerolidol          | 0.03 |
| pogostol               | 0.01 |

#### Other 2.95%



|              |      |
|--------------|------|
| santene      | 2.63 |
| dodecanal    | 0.21 |
| 2-undecanone | 0.06 |
| manool oxide | 0.02 |
| manool oxide | 0.02 |
| undecane     | 0.01 |

Raw Material: needles

INCI Name: ABIES SIBIRICA OIL

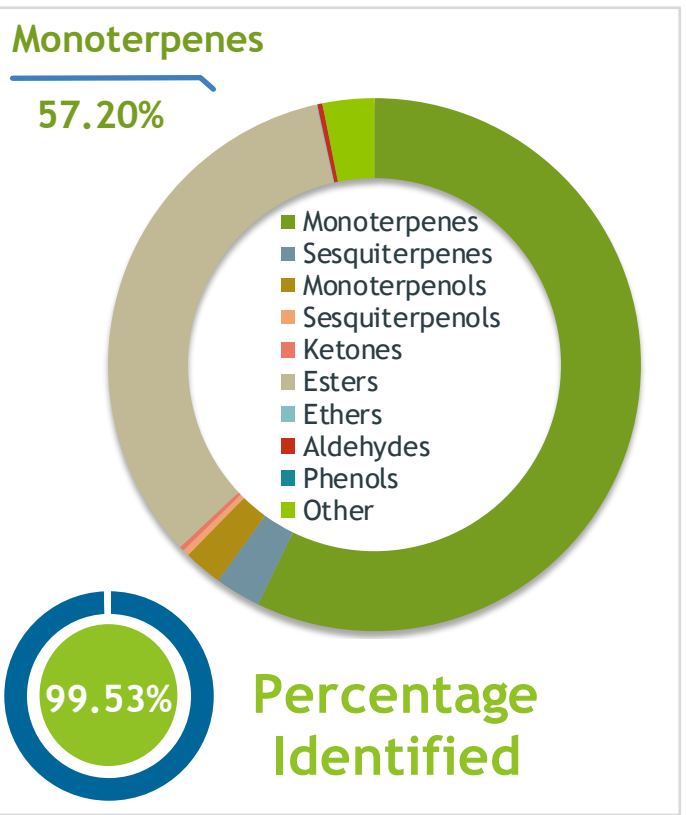
Production Method: Steam distillation

Date Analyzed: 6/6/2020

**Client**  **Source** 

Siberian Fir (*Abies sibirica*)  
RU-59041

**Sample** Siberian Fir (*Abies sibirica*)  
Batch #:..... RU-59041  
Type:..... Essential Oil  
CAS Number:... 8021-28-1  
**Nature's Gift**



**Client**  **Website** 

**Primary**

**32.95% Bornyl acetate**  
**19.57% Camphene**  
**11.05% alpha-Pinene**

**Result** 

**Conclusion** No adulterants, diluents, or contaminants were detected via this method. This oil meets the expected profile for genuine Essential Oil of Siberian Fir (*Abies sibirica*)

Internal Number: | EVS-3722

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


|                 |        |        |
|-----------------|--------|--------|
| Monoterpenes    | 57.20% | 57.20% |
| Sesquiterpenes  |        | 2.78%  |
| Monoterpenols   |        | 2.35%  |
| Sesquiterpenols |        | 0.40%  |
| Ketones         |        | 0.27%  |
| Esters          | 33.49% | 33.49% |
| Ethers          |        | 0.06%  |
| Aldehydes       |        | 0.31%  |
| Phenols         |        | 0.01%  |
| Other           |        | 3.13%  |

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Client



Source

Siberian Fir (*Abies sibirica*)

RU-59041

| Total Percentage |       | 99.53%     |                           |                      |
|------------------|-------|------------|---------------------------|----------------------|
| Number           | RT    | Area %     | Compound Name             | Chemical Family      |
| 1                | 3.75  | 0.01%      | Toluene                   | Simple Phenolic      |
| 2                | 6.74  | 2.63%      | Santene                   | Normonoterpene       |
| 3                | 8.14  | 2.47%      | Tricyclene                | Monoterpene          |
| 4                | 8.31  | 0.09%      | alpha-Thujene             | Monoterpene          |
| 5                | 8.58  | 11.05%     | alpha-Pinene              | Monoterpene          |
| 6                | 9.22  | 19.57%     | Camphene                  | Monoterpene          |
| 7                | 10.15 | 0.01%      | Sabinene                  | Monoterpene          |
| 8                | 10.33 | 2.25%      | beta-Pinene               | Monoterpene          |
| 9                | 10.91 | 0.68%      | Myrcene                   | Monoterpene          |
| 10               | 11.57 | 0.16%      | alpha-Phellandrene        | Monoterpene          |
| 11               | 11.70 | 10.84%     | delta-3-Carene            | Monoterpene          |
| 12               | 12.05 | 0.09%      | alpha-Terpinene           | Monoterpene          |
| 13               | 12.38 | 0.16%      | para-Cymene               | Monoterpene          |
| 14               | 12.61 | 8.57%      | Limonene                  | Monoterpene          |
| 15               | 12.62 | Co-Eluting | beta-Phellandrene         | Monoterpene          |
| 16               | 12.97 | 0.02%      | (Z)-beta-Ocimene          | Monoterpene          |
| 17               | 13.92 | 0.13%      | gamma-Terpinene           | Monoterpene          |
| 18               | 14.99 | 0.05%      | Isoterpinolene            | Monoterpene          |
| 19               | 15.16 | 1.03%      | Terpinolene               | Monoterpene          |
| 20               | 15.35 | 0.03%      | para-Cymenene             | Monoterpene          |
| 21               | 15.54 | 0.06%      | Linalool                  | Monoterpenol         |
| 22               | 15.96 | 0.01%      | Undecane                  | Alkane               |
| 23               | 16.66 | 0.02%      | Fenchol                   | Monoterpenol         |
| 24               | 16.92 | 0.01%      | cis-para-Menth-2-en-1-ol  | Monoterpenol         |
| 25               | 17.02 | 0.02%      | alpha-Campholene aldehyde | Monoterpene Aldehyde |
| 26               | 17.63 | 0.02%      | alpha-Pinocarveol         | Monoterpenol         |
| 27               | 17.88 | 0.17%      | Camphor                   | Monoterpene Ketone   |
| 28               | 18.27 | 0.11%      | Camphene hydrate          | Monoterpenol         |
| 29               | 18.69 | 0.03%      | para-Mentha-1,5-dien-8-ol | Monoterpenol         |
| 30               | 19.08 | 1.65%      | Borneol                   | Monoterpenol         |
| 31               | 19.51 | 0.10%      | Terpinen-4-ol             | Monoterpenol         |
| 32               | 19.74 | 0.03%      | Cryptone                  | Monoterpene Ketone   |
| 33               | 19.82 | 0.05%      | para-Cymen-8-ol           | Monoterpenol         |
| 34               | 20.19 | 0.22%      | alpha-Terpineol           | Monoterpenol         |
| 35               | 20.79 | 0.04%      | Decanal                   | Aliphatic Aldehyde   |

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- Essential Oil testing is performed by using qualitative GC-MS. Method: SOP.T.01 Client Method  
 - This report may not be published without the consent of Essential Validation Services.  
 - Chromatograph image may be requested  
 - This report is valid for 1 year from the analyzed date

Client



Source

Siberian Fir (*Abies sibirica*)

RU-59041

| Number | RT     | Area % | Compound Name          | Chemical Family      |
|--------|--------|--------|------------------------|----------------------|
| 36     | 21.245 | 0.02%  | Fenchyl acetate        | Aliphatic Aldehyde   |
| 37     | 21.84  | 0.04%  | Methyl thymol          | Monoterpene Ether    |
| 38     | 22.82  | 0.02%  | Nerol                  | Monoterpenol         |
| 39     | 23.88  | 0.02%  | Phellandral            | Monoterpene Aldehyde |
| 40     | 24.34  | 32.95% | Bornyl acetate         | Monoterpene Ester    |
| 41     | 24.70  | 0.06%  | 2-Undecanone           | Aliphatic Ketone     |
| 42     | 25.19  | 0.02%  | Perilla aldehyde       | Monoterpene Aldehyde |
| 43     | 25.59  | 0.04%  | Menthyl acetate        | Monoterpene Ester    |
| 44     | 26.42  | 0.02%  | Dihydrocarvyl acetate  | Monoterpene Ester    |
| 45     | 26.79  | 0.04%  | Terpinen-4-yl acetate  | Monoterpene Ester    |
| 46     | 27.07  | 0.01%  | alpha-Longipinene      | Sesquiterpene        |
| 47     | 27.21  | 0.01%  | Citronellyl acetate    | Monoterpene Ester    |
| 48     | 27.58  | 0.04%  | Neryl acetate          | Monoterpene Ester    |
| 49     | 27.69  | 0.03%  | trans-Caryyl acetate   | Monoterpene Ester    |
| 50     | 27.94  | 0.02%  | alpha-Ylangene         | Sesquiterpene        |
| 51     | 28.43  | 0.31%  | Geranyl acetate        | Monoterpene Ester    |
| 52     | 29.36  | 0.04%  | Sibirene               | Sesquiterpene        |
| 53     | 29.56  | 0.09%  | Longifolene            | Sesquiterpene        |
| 54     | 29.75  | 0.21%  | Dodecanal              | Aliphatic Aldehyde   |
| 55     | 30.03  | 1.37%  | beta-Caryophyllene     | Sesquiterpene        |
| 56     | 31.26  | 0.05%  | alpha-Himachalene      | Sesquiterpene        |
| 57     | 31.50  | 0.81%  | alpha-Humulene         | Sesquiterpene        |
| 58     | 32.45  | 0.06%  | 1-Dodecanol            | Monoterpenol         |
| 59     | 32.86  | 0.03%  | beta-Selinene          | Sesquiterpene        |
| 60     | 33.15  | 0.04%  | alpha-Chamigrene       | Sesquiterpene        |
| 61     | 33.27  | 0.01%  | 2-Tridecanone          | Sesquiterpene Ketone |
| 62     | 33.74  | 0.19%  | beta-Bisabolene        | Sesquiterpene        |
| 63     | 33.84  | 0.04%  | beta-Himachalene       | Sesquiterpene        |
| 64     | 34.47  | 0.09%  | trans-gamma-Bisabolene | Sesquiterpene        |
| 65     | 35.83  | 0.03%  | (E)-Nerolidol          | Sesquiterpenol       |
| 66     | 36.48  | 0.05%  | Longipinanol           | Sesquiterpenol       |
| 67     | 37.54  | 0.02%  | Humulene epoxide II    | Sesquiterpene Ether  |
| 68     | 37.73  | 0.01%  | Dodecyl acetate        | Monoterpene Ester    |
| 69     | 38.06  | 0.05%  | Globulol               | Sesquiterpenol       |
| 70     | 40.06  | 0.01%  | Pogostol               | Sesquiterpenol       |
| 71     | 40.54  | 0.26%  | epi-alpha-Bisabolol    | Sesquiterpenol       |

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