

Client



Source

**Sweet Basil** (*Ocimum basilicum*)

EVS-2026-NG-19

1

Sample

**Sweet Basil** (*Ocimum basilicum*)

**Batch #:** NP-59546  
**Type:** Essential Oil  
**Origin:** Nepal  
**CAS #:** 8015-73-4

Client

**NATURE'S  
GIFT**

Properties

**RI:** NT  
**SG:** NT

Primary

**51.82%** | Linalool  
**5.58%** | 1,8-Cineole  
**5.55%** | trans-alpha-Bergamotene  
**5.23%** | Geraniol

Result

**Pass**

Meets specifications

## ANALYSIS SUMMARY

Total Compounds: 102

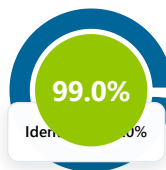
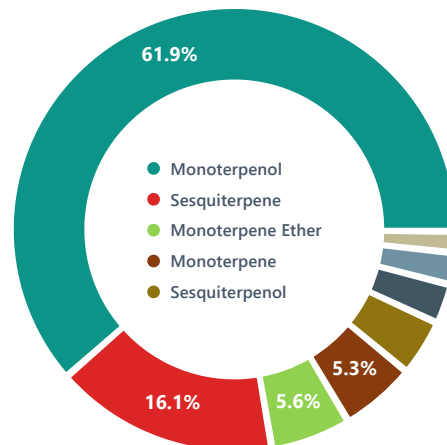
Lab

**Essential Validation Services**

EO Testing Lab

240 Goose Hollow Road  
Berthoud, Colorado 80513

Phone: (317) 361-5044  
[essentialvalidationservices.com](http://essentialvalidationservices.com)

**CHEMICAL FAMILY BREAKDOWN****TOTAL CONTENT IDENTIFIED**

**99.0%** identified  
1.0% unidentified

Conclusion

**PROFESSIONAL ANALYSIS SUMMARY**

Analysis of this Sweet Basil (*Ocimum basilicum*) Essential Oil sample was conducted against the Basil (*Ocimum basilicum* ct. Linalool) standard specification. The chromatographic analysis accounted for 99.0% of the total sample composition. All major constituents were found to be within the expected ranges specified in the standard. No adulterants, diluents, or contaminants were detected via this method. This oil meets the expected profile for genuine Basil (*Ocimum basilicum* ct. Linalool).

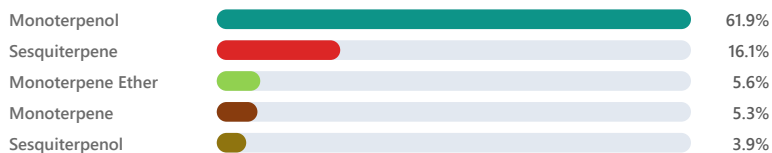
Adam Christensen • Jun 1, 2026

Adam Christensen

Analyst Signature

Date

Jun 1, 2026

**CHEMICAL FAMILY DISTRIBUTION**

Client



Source

**Sweet Basil** (*Ocimum basilicum*)

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### Expected vs. Detected Components

Comparison against EVS Internal Standard for Basil (*Ocimum basilicum* ct. Linalool)

| Compound                  | Expected     | Detected | Status | Family             |
|---------------------------|--------------|----------|--------|--------------------|
| 1 Linalool                | 30.00-72.00% | 51.82%   | ✓      | Monoterpenol       |
| 2 1,8-Cineole             | 4.00-17.00%  | 5.58%    | ✓      | Monoterpene Ether  |
| 3 trans-alpha-Bergamotene | 2.00-8.00%   | 5.55%    | ✓      | Sesquiterpene      |
| 4 Eugenol                 | 1.50-8.00%   | 1.99%    | ✓      | Phenylpropanoid    |
| 5 beta-Elemene            | 0.01-5.00%   | 1.66%    | ✓      | Sesquiterpene      |
| 6 gamma-Cadinene          | 0.75-3.00%   | 2.00%    | ✓      | Sesquiterpene      |
| 7 Terpinen-4-ol           | 0.10-2.50%   | 2.27%    | ✓      | Monoterpenol       |
| 8 Bornyl acetate          | 0.75-2.20%   | 1.19%    | ✓      | Monoterpene Ester  |
| 9 Myrcene                 | 0.10-2.00%   | 0.63%    | ✓      | Monoterpene        |
| 10 Methyl chavicol        | 0.10-1.80%   | 0.57%    | ✓      | Phenylpropanoid    |
| 11 beta-Pinene            | 0.20-1.80%   | 0.63%    | ✓      | Monoterpene        |
| 12 alpha-Terpineol        | 0.01-1.80%   | 0.65%    | ✓      | Monoterpenol       |
| 13 delta-Guaiene          | 0.20-1.50%   | 0.61%    | ✓      | Sesquiterpene      |
| 14 Sabinene               | 0.10-1.20%   | 0.33%    | ✓      | Monoterpene        |
| 15 Camphor                | 0.10-1.20%   | 0.42%    | ✓      | Monoterpene Ketone |
| 16 (E)-beta-Ocimene       | 0.20-1.20%   | 0.91%    | ✓      | Monoterpene        |
| 17 alpha-Pinene           | 0.10-1.20%   | 0.55%    | ✓      | Monoterpene        |

### Professional Analysis Summary

#### 1 Sample Analysis

This Sweet Basil (*Ocimum basilicum*) sample shows **102** detected compounds (**101** identified, 99.0% rate).

#### 2 Major Components

Predominant: **Linalool** (51.8%), **1,8-Cineole** (5.6%), **trans-alpha-Bergamotene** (5.5%), +8 others.

#### 3 Chemical Profile

**13** chemical families: Monoterpenol, Monoterpene Ether, Sesquiterpene, +10 others.

#### 4 Quality Assessment

Sample **meets** specifications for Sweet Basil (*Ocimum basilicum*).

Sweet Basil (*Ocimum basilicum*)

EVS-2026-NG-19

Total Percentage:

98.98%

| Number | RT    | Area % | Compound Name                       | Chemical Family    |
|--------|-------|--------|-------------------------------------|--------------------|
| 1      | 8.38  | 0.03%  | (E)-Hex-3-en-1-ol                   | Aliphatic Alcohol  |
| 2      | 10.31 | 0.16%  | alpha-Thujene                       | Monoterpene        |
| 3      | 10.60 | 0.55%  | alpha-Pinene ✓                      | Monoterpene        |
| 4      | 11.10 | 0.12%  | Camphene                            | Monoterpene        |
| 5      | 11.63 | 0.07%  | 1-Octen-3-ol                        | Aliphatic Alcohol  |
| 6      | 11.75 | 0.33%  | Sabinene ✓                          | Monoterpene        |
| 7      | 11.90 | 0.03%  | Octan-3-one                         | Aliphatic Ketone   |
| 8      | 11.96 | 0.63%  | beta-Pinene ✓                       | Monoterpene        |
| 9      | 12.10 | 0.63%  | Myrcene ✓                           | Monoterpene        |
| 10     | 12.51 | 0.03%  | (Z)-3-Hexenyl acetate               | Aliphatic Ester    |
| 11     | 12.76 | 0.04%  | alpha-Phellandrene                  | Monoterpene        |
| 12     | 13.17 | 0.12%  | alpha-Terpinene                     | Monoterpene        |
| 13     | 13.43 | 0.47%  | para-Cymene                         | Monoterpene        |
| 14     | 13.61 | 0.61%  | Limonene                            | Monoterpene        |
| 15     | 13.68 | 0.11%  | beta-Phellandrene                   | Monoterpene        |
| 16     | 13.76 | 5.58%  | 1,8-Cineole ✓                       | Monoterpene Ether  |
| 17     | 14.09 | 0.91%  | (E)-beta-Ocimene ✓                  | Monoterpene        |
| 18     | 14.66 | 0.22%  | gamma-Terpinene                     | Monoterpene        |
| 19     | 14.81 | 0.08%  | 1-Octanol                           | Aliphatic Alcohol  |
| 20     | 15.02 | 0.37%  | trans-Sabinene hydrate              | Monoterpenol       |
| 21     | 15.17 | 0.09%  | cis-Linalool oxide (5) (furanoid)   | Monoterpenol       |
| 22     | 15.77 | 0.09%  | trans-Linalool oxide (5) (furanoid) | Monoterpenol       |
| 23     | 15.84 | 0.21%  | Terpinolene                         | Monoterpene        |
| 24     | 15.95 | 0.02%  | Fenchone                            | Monoterpene Ketone |
| 25     | 16.18 | 51.82% | Linalool ✓                          | Monoterpenol       |
| 26     | 16.33 | 0.30%  | cis-Sabinene hydrate                | Monoterpenol       |
| 27     | 16.72 | 0.01%  | Perillene                           | Monoterpene Ether  |
| 28     | 17.20 | 0.02%  | cis-para-Menth-2-en-1-ol            | Monoterpenol       |
| 29     | 17.75 | 0.14%  | (Z)-Epoxy-ocimene                   | Monoterpene        |
| 30     | 17.90 | 0.02%  | trans-para-Menth-2-en-1-ol          | Monoterpenol       |
| 31     | 18.30 | 0.42%  | Camphor ✓                           | Monoterpene Ketone |

**Sweet Basil** (*Ocimum basilicum*)

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| Number | RT    | Area % | Compound Name                           | Chemical Family      |
|--------|-------|--------|-----------------------------------------|----------------------|
| 32     | 18.55 | 0.02%  | Isomenthone                             | Monoterpene Ketone   |
| 33     | 19.05 | 0.13%  | delta-Terpineol                         | Monoterpenol         |
| 34     | 19.13 | 0.28%  | Borneol                                 | Monoterpenol         |
| 35     | 19.26 | 0.49%  | Menthol                                 | Monoterpenol         |
| 36     | 19.55 | 2.27%  | Terpinen-4-ol ✓ (0.10%-2.50%)           | Monoterpenol         |
| 37     | 19.65 | 0.05%  | (Z)-3-Hexenyl butyrate                  | Aliphatic Ester      |
| 38     | 19.71 | 0.02%  | para-Cymen-8-ol                         | Monoterpenol         |
| 39     | 20.04 | 0.65%  | alpha-Terpineol ✓ (0.01%-1.80%)         | Monoterpenol         |
| 40     | 20.29 | 0.57%  | Methyl chavicol ✓ (0.10%-1.80%)         | Phenylpropanoid      |
| 41     | 20.51 | 0.23%  | Octyl acetate                           | Aliphatic Ester      |
| 42     | 21.29 | 0.03%  | Citronellol                             | Monoterpenol         |
| 43     | 21.42 | 0.06%  | Nerol                                   | Monoterpenol         |
| 44     | 22.00 | 0.10%  | Neral                                   | Monoterpene Aldehyde |
| 45     | 22.47 | 5.23%  | Geraniol                                | Monoterpenol         |
| 46     | 23.21 | 0.22%  | Geranial                                | Monoterpene Aldehyde |
| 47     | 23.94 | 0.01%  | Limonene Dioxide                        | Unknown              |
| 48     | 24.11 | 1.19%  | Bornyl acetate ✓ (0.75%-2.20%)          | Monoterpene Ester    |
| 49     | 26.41 | 0.20%  | delta-Elementene                        | Sesquiterpene        |
| 50     | 26.92 | 0.02%  | alpha-Cubebene                          | Sesquiterpene        |
| 51     | 27.05 | 1.99%  | Eugenol ✓ (1.50%-8.00%)                 | Phenylpropanoid      |
| 52     | 27.87 | 0.83%  | Geranyl acetate                         | Monoterpene Ester    |
| 53     | 28.00 | 0.04%  | (Z)-3-hexenyl hexanoate                 | Unknown              |
| 54     | 28.59 | 0.10%  | beta-Bourbonene                         | Sesquiterpene        |
| 55     | 28.71 | 1.66%  | beta-Elementene ✓ (0.01%-5.00%)         | Sesquiterpene        |
| 56     | 28.82 | 0.07%  | Methyl eugenol                          | Phenylpropanoid      |
| 57     | 28.92 | 0.07%  | alpha-Copaene                           | Sesquiterpene        |
| 58     | 29.61 | 0.08%  | cis-alpha-Bergamotene                   | Sesquiterpene        |
| 59     | 29.86 | 0.03%  | alpha-Cedrene                           | Sesquiterpene        |
| 60     | 29.99 | 0.16%  | beta-Copaene                            | Sesquiterpene        |
| 61     | 30.24 | 0.08%  | beta-Cedrene                            | Sesquiterpene        |
| 62     | 30.46 | 5.55%  | trans-alpha-Bergamotene ✓ (2.00%-8.00%) | Sesquiterpene        |
| 63     | 30.68 | 0.56%  | alpha-Guaiene                           | Sesquiterpene        |
| 64     | 30.88 | 0.04%  | beta-Caryophyllene                      | Sesquiterpene        |

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| Number | RT    | Area % | Compound Name                       | Chemical Family     |
|--------|-------|--------|-------------------------------------|---------------------|
| 65     | 31.03 | 0.31%  | (E)-beta-Farnesene                  | Sesquiterpene       |
| 66     | 31.22 | 0.02%  | Sesquisabinene                      | Sesquiterpene       |
| 67     | 31.48 | 0.64%  | alpha-Humulene                      | Sesquiterpene       |
| 68     | 31.60 | 0.03%  | alpha-Acoradiene                    | Sesquiterpene       |
| 69     | 31.68 | 0.02%  | Dauca-5,8-diene                     | Sesquiterpene       |
| 70     | 31.81 | 0.42%  | cis-Muurolo-4(14),5-diene           | Sesquiterpene       |
| 71     | 31.94 | 0.04%  | 10-epi-beta-Acoradiene              | Sesquiterpene       |
| 72     | 32.27 | 0.07%  | beta-Acoradiene                     | Sesquiterpene       |
| 73     | 32.55 | 2.28%  | Germacrene D                        | Sesquiterpene       |
| 74     | 32.80 | 0.09%  | beta-Selinene                       | Sesquiterpene       |
| 75     | 32.89 | 0.02%  | 28.05 Himachalene<gamma->           | Unknown             |
| 76     | 33.02 | 0.02%  | epi-Cubebol                         | Sesquiterpenol      |
| 77     | 33.17 | 0.34%  | Bicyclogermacrene                   | Sesquiterpene       |
| 78     | 33.31 | 0.16%  | beta-Bisabolene                     | Sesquiterpene       |
| 79     | 33.46 | 0.61%  | delta-Guaiene ✓ (0.20%-1.50%)       | Sesquiterpene       |
| 80     | 33.80 | 2.00%  | gamma-Cadinene ✓ (0.75%-3.00%)      | Sesquiterpene       |
| 81     | 33.96 | 0.23%  | beta-Sesquiphellandrene             | Sesquiterpene       |
| 82     | 34.06 | 0.12%  | delta-Cadinene                      | Sesquiterpene       |
| 83     | 34.12 | 0.19%  | trans-Calamenene                    | Sesquiterpene       |
| 84     | 34.43 | 0.04%  | Cubebol                             | Sesquiterpenol      |
| 85     | 34.69 | 0.07%  | 30.33 Cadinene<alpha->              | Unknown             |
| 86     | 35.06 | 0.04%  | 30.72 Hedycaryl                     | Unknown             |
| 87     | 35.31 | 0.41%  | (E)-Nerolidol                       | Sesquiterpenol      |
| 88     | 35.51 | 0.01%  | 31.24 Muurolo-5-en-4-alpha-ol<cis-> | Unknown             |
| 89     | 36.03 | 0.06%  | Maaliol                             | Sesquiterpenol      |
| 90     | 36.24 | 0.02%  | Germacrene D-4-ol                   | Sesquiterpenol      |
| 91     | 36.37 | 0.19%  | Spathulenol                         | Sesquiterpenol      |
| 92     | 36.66 | 0.03%  | Caryophyllene oxide                 | Sesquiterpene Ether |
| 93     | 36.85 | 0.01%  | Gleenol                             | Sesquiterpenol      |
| 94     | 36.98 | 0.05%  | Viridiflorol                        | Sesquiterpenol      |
| 95     | 37.66 | 0.02%  | Humulene epoxide II                 | Sesquiterpene Ether |
| 96     | 37.76 | 0.43%  | 1,10-di-epi-Cubebol                 | Sesquiterpenol      |
| 97     | 38.66 | 2.40%  | T-Cadinol                           | Sesquiterpenol      |

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| Number | RT    | Area % | Compound Name                                  | Chemical Family   |
|--------|-------|--------|------------------------------------------------|-------------------|
| 98     | 39.18 | 0.19%  | alpha-Cadinol                                  | Sesquiterpenol    |
| 99     | 40.14 | 0.04%  | alpha-Bisabolol                                | Sesquiterpenol    |
| 100    | 40.41 | 0.02%  | 36.18 Germacra-4(15),5,10(14)-trien-1-alpha-ol | Unknown           |
| 101    | 41.22 | 0.05%  | 36.13 Farnesal<2Z, 6Z->                        | Unknown           |
| 102    | 42.25 | 0.03%  | Geranyl caproate                               | Monoterpene Ester |

