**Batch Number:**
20260907-SCTR1TSF

ALTRAFLORA
NATURAL EXTRACTS

**Manufactured:**
07.09.2026

# TECHNICAL DATA SHEET

## *Product Information*

**Product Name:** Pink peppercorn $CO_2$ extract (origin: Madagascar), PN AF-SCTR1TSF

**Scientific name:** *Schinus terebinthifolius*

**Parts utilized for extraction:** Berries (dried)

**Appearance:** Clear, pale-yellow mobile liquid

**Aroma:** Intense, bright peppery and resinous, with a sweet fruity top

**Solubility:** Insoluble in water; soluble in ethanol and fixed oils

## *Raw Material Specification*

| Analysis | Method | Result |
|---|---|---|
| Total ash for herb | Ph. Eur. (2.4.16) | <4% |
| Pesticides | GC/MS, LC-MS/MS | Complies with Ph. Eur. (2.8.13) |
| Aflatoxins (G1, G2, B1, B2) | AOAC 999.07 | Complies with Ph. Eur. (2.8.18) |
| Ochratoxin A | AOAC 2004.10 | Complies with Ph. Eur. (2.8.22) |
| Benzo(a)pyrene (PAH) | JOSS 2002 25, pp. 96–100 | <10 ppb |

## *Extract Specification*

| Analysis | Method | Specification | Result |
|---|---|---|---|
| **Major components:** | | | |
| α-Phellandrene | GC-FID, area normalisation (AF-LABGC003) | min. 30 % | 37.82 % |
| α-Pinene | | 8 – 16 % | 11.24 % |
| Limonene | | 6 – 15 % | 10.87 % |
| δ-3-Carene | | 3.0 – 9.0 % | 6.16 % |
| β-Copaene | | 2.0 – 8.0 % | 5.25 % |
| (E)-Caryophyllene | | 1.0 – 6.0 % | 3.31 % |
| p-Cymene | | 1.0 – 5.0 % | 2.76 % |
| **TOTAL** | | **min. 70 %** | **77.41 %** |
| Identified compounds (GC-FID area) | GC-FID, area normalisation (AF-LABGC003) | min. 90 % | 97.11 % |
| Arsenic (As) | ICP-OES (In-house method) | N.D. (< 1 ppm) | N.D. |
| Cadmium (Cd) | | N.D. (< 3 ppm) | N.D. |
| Lead (Pb) | | N.D. (< 1 ppm) | N.D. |
| Mercury (Hg) | | N.D. (< 0.1 ppm) | N.D. |
| Total aerobic microbial count (cfu/g) | ISO 4833-1 | <10000 | Complies |
| Yeast & mold (cfu/g) | ISO 21527-2 | <100 | Complies |
| *Escherichia coli* | ISO 16649-2 | N.D. (in 1 g) | N.D. |
| *Salmonella* | ISO 6579 | N.D. (in 25 g) | N.D. |
| *Pseudomonas aeruginosa* | ISO 13720 | N.D. (in 1 g) | N.D. |
| *Staphylococcus aureus* | ISO 6888-1 | N.D. (in 1 g) | N.D. |

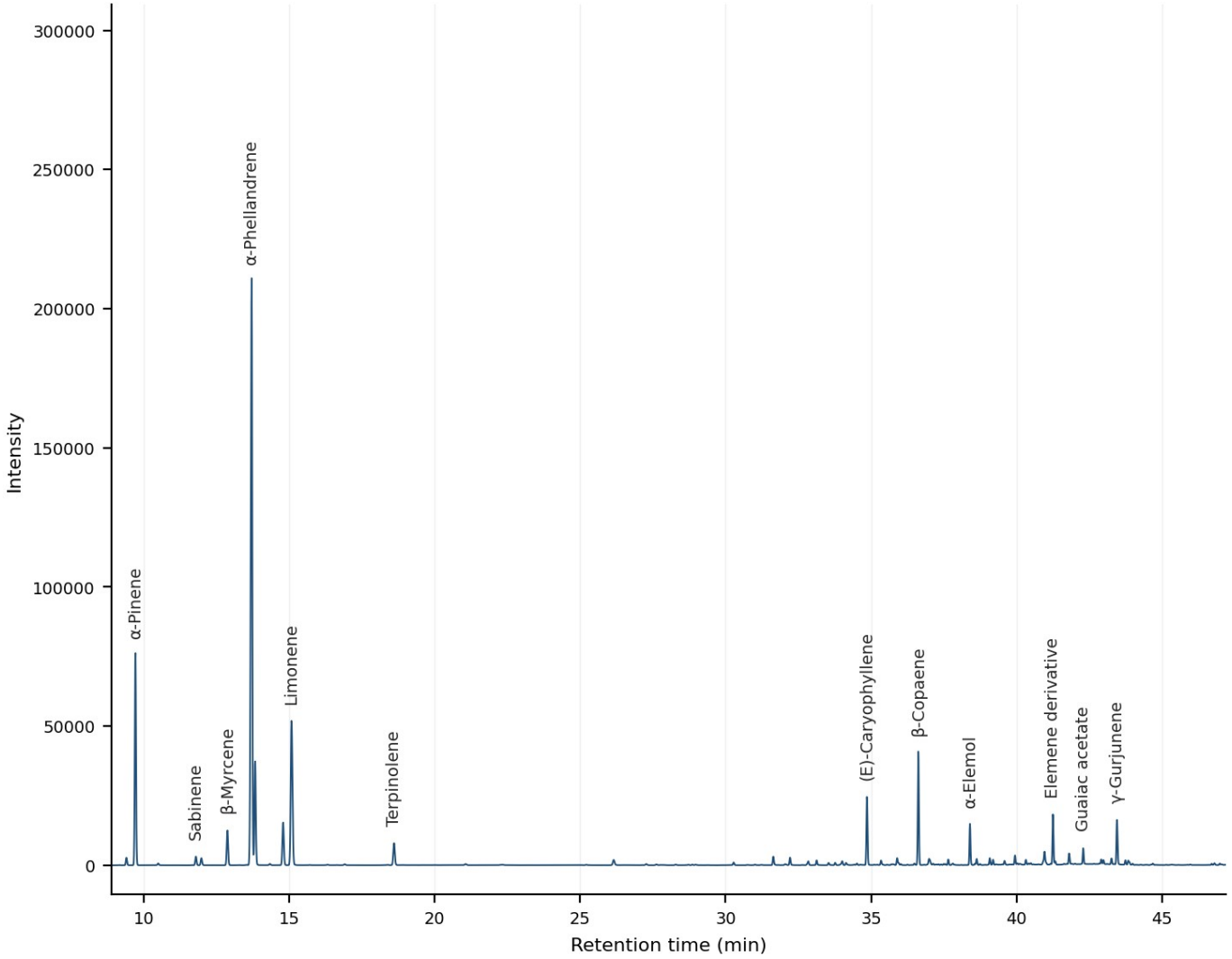
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*Chromatogram*




*Additional Data*

**Storage conditions:** Store in cool and dry place, keep away from intense light and high heat.

**Carrier:** None. This is a pure, undiluted $CO_2$ extract.

**Packaging:** 1–5 kg/bottle, 10–25–50 kg/drum.

**Shelf life:** 24 months

**Dosage and use:** This is the first-stage supercritical $CO_2$ extract of Madagascan pink peppercorn — the aromatic fraction, taken off at low pressure before the fixed oil is recovered in a second stage. It is supplied undiluted as a formulation raw material for fine fragrance, flavour houses, gin and aperitif producers, and premium personal care. α-Phellandrene dominates at above 30 %, with α-pinene and limonene supplying the fresh terpenic lift and a sesquiterpene tail giving persistence. Dose to effect: in flavour applications the material is typically used well below 0.05 %, and in fragrance at 0.1–2.0 % of the concentrate. Botanically this is Schinus terebinthifolius and not a true pepper; persons with a known cashew or mango allergy should avoid skin contact.

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*Full chromatographic profile (GC-FID)*

| Name | CAS | RT (min) | Content (%) |
|---|---|---|---|
| α-Thujene | 2867-05-2 | 9.395 | 0.39 |
| **α-Pinene** | **80-56-8** | **9.704** | **11.24** |
| Camphene | 79-92-5 | 10.489 | 0.11 |
| Sabinene | 3387-41-5 | 11.785 | 0.50 |
| β-Pinene | 127-91-3 | 11.973 | 0.42 |
| β-Myrcene | 123-35-3 | 12.868 | 2.08 |
| **α-Phellandrene** | **99-83-2** | **13.701** | **37.82** |
| **δ-3-Carene** | **13466-78-9** | **13.821** | **6.16** |
| **p-Cymene** | **99-87-6** | **14.782** | **2.76** |
| **Limonene** | **138-86-3** | **15.073** | **10.87** |
| Terpinolene | 586-62-9 | 18.599 | 1.52 |
| Sabinyl acetate | 3536-54-7 | 26.151 | 0.40 |
| Bornyl acetate | 76-49-3 | 30.275 | 0.15 |
| δ-Elemene | 370572-92-2 | 32.215 | 0.39 |
| Citronellyl acetate | 150-84-5 | 33.130 | 0.24 |
| Lavandulyl acetate | 25905-14-0 | 33.541 | 0.13 |
| α-Copaene | 138874-68-7 | 33.766 | 0.12 |
| cis-Geranyl acetate | 141-12-8 | 34.009 | 0.28 |
| β-Elemene | 33880-83-0 | 34.141 | 0.14 |
| α-Gurjunene | 151283-74-8 | 34.515 | 0.09 |
| **(E)-Caryophyllene** | **13877-93-5** | **34.860** | **3.31** |
| cis-α-Bergamotene | 18252-46-5 | 35.344 | 0.26 |
| α-Humulene | 6753-98-6 | 35.745 | 0.07 |
| 9-epi-(E)-Caryophyllene | 68832-35-9 | 35.899 | 0.43 |
| (E)-β-Farnesene | 18794-84-8 | 36.491 | 0.09 |
| **β-Copaene** | **18252-44-3** | **36.627** | **5.25** |
| Bicyclogermacrene | 67650-90-2 | 37.137 | 0.08 |
| cis-α-Bergamotene | 18252-46-5 | 37.250 | 0.05 |
| Germacrene A | 28387-44-2 | 37.500 | 0.05 |
| δ-Elemene | 370572-92-2 | 37.657 | 0.24 |
| δ-Cadinene | 16729-01-4 | 37.812 | 0.10 |
| α-Elemol | 19078-36-5 | 38.403 | 1.84 |
| Germacrene B | 15423-57-1 | 38.633 | 0.29 |
| 4-epi-Cubedol | — | 39.084 | 0.33 |
| **(E)-Caryophyllene** | **13877-93-5** | **39.197** | **0.25** |
| Guaiol | 489-86-1 | 39.591 | 0.20 |
| Rosifoliol | 63891-61-2 | 39.951 | 0.44 |
| 13-Hydroxyvalencene | 438536-20-0 | 40.033 | 0.08 |
| β-Atlantol | 38142-56-2 | 40.113 | 0.07 |
| β-Eudesmol | 473-15-4 | 40.324 | 0.23 |
| α-Eudesmol | 473-16-5 | 40.428 | 0.07 |
| Viridiflorene | 21747-46-6 | 40.499 | 0.07 |
| epi-γ-Eudesmol | 98683-12-6 | 40.965 | 0.90 |
| Elemene derivative | 515-13-9 | 41.256 | 2.26 |
| α-Elemol | 19078-36-5 | 41.336 | 0.15 |
| Guaiac acetate | 134-28-1 | 42.297 | 0.73 |
| β-Guaiene | 88-84-6 | 42.917 | 0.21 |

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| Name | CAS | RT (min) | Content (%) |
|---|---|---|---|
| α-Guaiene | 3691-12-1 | 42.993 | 0.19 |
| Guaiene derivative | 134-28-1 | 43.269 | 0.27 |
| γ-Gurjunene | 22567-17-5 | 43.457 | 2.18 |
| Hinesol acetate | 88494-77-3 | 43.747 | 0.20 |
| β-Selinene | 17066-67-0 | 43.847 | 0.29 |
| Hinesol acetate derivative | 88494-77-3 | 43.993 | 0.06 |
| Patchoulyl acetate | 67152-05-0 | 46.716 | 0.06 |

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