# Kalmegh Supercritical CO2 Extract (Andrographis paniculata) – Full Spectrum 25:1

*Andrographis paniculata · Acanthaceae*

| DOCUMENT | PRODUCT CODE | DOCUMENT NO. | REVISION | PRODUCT FORM |
|---|---|---|---|---|
| Technical Data Sheet | AP1628 | TDS-AP1628 | 1.0 · 24 October 2026 | Supercritical CO2 Extract |

## 1 Product description

Kalmegh supercritical CO2 extract is produced from the leaf of Andrographis paniculata (Acanthaceae family) by extraction with pressurised carbon dioxide, which leaves no solvent residue and keeps heat-sensitive, lipophilic constituents intact. Available grades: Full spectrum 25:1. Origin: India. Intended for B2B formulation in nutraceuticals & supplements.

## 2 Identification

| | |
|---|---|
| Botanical source | *Andrographis paniculata* (Acanthaceae) |
| Common name(s) | Kalmegh |
| Plant part used | Leaf |
| Typical origin | India |
| CAS number (botanical extract) | 90244-84-1 |
| Manufacturing process | Supercritical carbon dioxide extraction (solvent-free) |
| Standardisation | Full spectrum 25:1 (supercritical CO2) |

## 3 Specification

| PARAMETER | SPECIFICATION | METHOD |
|---|---|---|
| Appearance | Viscous oil, paste or semi-solid at 20 °C; yellow to dark brown (characteristic) | Visual |
| Odour | Characteristic | Organoleptic |
| Identification | Conforms (GC fingerprint vs. reference) | GC / GC-MS |
| Grade | Full spectrum 25:1 | Manufacturing record |
| Relative density (20 °C) | Report (lot value on CoA) | ISO 279 / USP ‹841› |
| Refractive index (20 °C) | Report (lot value on CoA) | ISO 280 / USP ‹831› |
| Acid value | Report (lot value on CoA) | AOCS Cd 3d-63 / Ph. Eur. 2.5.1 |
| Peroxide value | ≤ 10 meq $O_2$/kg | AOCS Cd 8b-90 / Ph. Eur. 2.5.5 |
| Water (Karl Fischer) | ≤ 1.0% | USP ‹921› |
| Residual solvents | None used (solvent-free process) | GC-HS |
| Lead (Pb) | ≤ 3.0 mg/kg | ICP-MS |
| Arsenic (As) | ≤ 2.0 mg/kg | ICP-MS |
| Cadmium (Cd) | ≤ 1.0 mg/kg | ICP-MS |
| Mercury (Hg) | ≤ 0.1 mg/kg | ICP-MS |
| Pesticide residues | Complies with USP ‹561› and Regulation (EC) No 396/2005 | GC-MS/MS, LC-MS/MS |
| Microbiology | Not applicable (anhydrous product); tested on request | — |

Limits above are the standard release specification for this product class. Each lot is released against its Certificate of Analysis, which is the governing document and is available on request.

## 4 Grades & pack sizes

| GRADE | SKU PREFIX | PACK SIZES |
|---|---|---|
| **Full spectrum 25:1** | AP1628-FULSPE251 | 50 g · 225 g · 1 Kg · 5 Kg |

## 5 Packaging

- Samples: amber glass bottle with tamper-evident closure.
- Up to 1 Kg: nitrogen-flushed amber glass, aluminium or HDPE bottle.
- 5 Kg and above: HDPE jerrycan or lacquered steel drum.
- Packaging may vary by lot and is stated on the packing list.

## 6 Storage & shelf life

- Shelf life: 24 months from date of manufacture in the original, unopened packaging.
- Store tightly closed below 25 °C, protected from light and heat.
- After opening, blanket with nitrogen and use promptly to limit oxidation.
- May thicken or solidify on cooling; warm gently (≤ 40 °C) and homogenise before use.

## 7 Applications

| | |
|---|---|
| Industries | Nutraceuticals & Supplements |
| Formulation focus | Liver & Detox, Immune Support, Respiratory Health |
| Traditional systems | Ayurveda, Traditional Chinese Medicine |

Use levels depend on the finished product and the target market. The customer is responsible for establishing safe and permitted use levels and for any claims made on finished products.

## 8 Regulatory & compliance

- Allergen information: not derived from a source listed in Annex II of Regulation (EU) No 1169/2011.
- Regulatory status for food, supplement, cosmetic or pharmaceutical use (e.g. EU novel food, US NDI/GRAS, FSSAI) must be confirmed by the customer for the intended market and use.

This Technical Data Sheet is issued by CHOLAD PRIVATE LIMITED (trading as Extrakte), C 22/4, 2nd & 3rd Floor, Sector-57, Noida-201301, Uttar Pradesh, India · +91 817 8117 600 · choladco@gmail.com · extrakte.com. The information is given in good faith and reflects our current knowledge of the product; it does not constitute a warranty of properties for any specific application. Refer to the Safety Data Sheet **SDS-AP1628** for hazard, handling and transport information. Certificates of Analysis are issued per lot and are available on request.