Spearmint Oil Extract (Mentha spicata) – L-Carvone 55–70%

Mentha spicata · Lamiaceae

DOCUMENT	PRODUCT CODE	DOCUMENT NO.	REVISION	PRODUCT FORM
Technical Data Sheet	AP0748	TDS-AP0748	1.0 · 24 October 2026	Essential Oil Fraction

1 Product description

Spearmint extract is produced from the leaf of Mentha spicata (Lamiaceae family) and supplied as an essential-oil fraction, standardized to L-Carvone. Available grades: Typical 55–70%. Typical sourcing: India, United States, China. Intended for B2B formulation in nutraceuticals & supplements.

2 Identification

Botanical source	*Mentha spicata* (Lamiaceae)
Common name(s)	Spearmint
Plant part used	Leaf
Typical origin	India, United States, China
Marker compound	L-Carvone (Monoterpenes & aromatic volatiles)
Manufacturing process	Steam distillation and/or fractional distillation
Standardisation	55–70% (GC)
Assay method	GC
Pharmacopoeia & standards	Ph. Eur. (EP)

3 Specification

PARAMETER	SPECIFICATION	METHOD
Appearance	Colourless to pale yellow mobile liquid	Visual
Odour	Characteristic	Organoleptic
Identification	Conforms (GC fingerprint vs. reference)	GC / GC-MS
Content – L-Carvone	Not more than 70% (typical 55–70%)	GC
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›
Optical rotation (20 °C)	Report (lot value on CoA)	ISO 592
Flash point	Expected below 60 °C; measured value on CoA	ISO 3679
Residual solvents	None used (distillation)	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
Typical 55–70%	AP0748-T5570	Sample (50 g) · 250 g · 1 Kg · 5 Kg · 25 Kg

5 Packaging

- Samples: amber glass bottle with tamper-evident closure.
- Up to 1 Kg: nitrogen-flushed amber glass, aluminium or HDPE bottle. UN-approved packaging for dangerous goods.
- 5 Kg and above: HDPE jerrycan or lacquered steel drum (UN-approved).
- 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.

7 Applications

Industries	Nutraceuticals & Supplements
Formulation focus	Cognitive Health, Digestive & Gut Health
Traditional systems	European herbal tradition

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

- Pharmacopoeia / standard references: Ph. Eur. (EP).
- 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.

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