Chili Oleoresin (Capsicum annuum) – Capsanthin 1–10%

Capsicum annuum · Solanaceae

DOCUMENT	PRODUCT CODE	DOCUMENT NO.	REVISION	PRODUCT FORM
Technical Data Sheet	AP0229	TDS-AP0229	1.0 · 24 October 2026	Oleoresin

1 Product description

Chili extract is produced from the fruit of Capsicum annuum (Solanaceae family) and supplied as an oleoresin, standardized to Capsanthin. Available grades: Typical 1–10%. Typical sourcing: India, China, Mexico. Intended for B2B formulation in food & beverage.

2 Identification

Botanical source	*Capsicum annuum* (Solanaceae)
Common name(s)	Chili, Cayenne
Plant part used	Fruit
Typical origin	India, China, Mexico
Marker compound	Capsanthin (Xanthophylls & apocarotenoids)
Manufacturing process	Extraction with food-grade solvents; solvent removed to JECFA residual-solvent limits
Standardisation	1–10% (HPLC)
Assay method	HPLC
Pharmacopoeia & standards	USP, Ph. Eur. (EP), EMA herbal monograph

3 Specification

PARAMETER	SPECIFICATION	METHOD
Appearance	Dark red viscous liquid	Visual
Odour	Characteristic	Organoleptic
Identification	Conforms (GC fingerprint vs. reference)	GC / GC-MS
Content – Capsanthin	Not more than 10% (typical 1–10%)	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›
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	Complies with JECFA limits for oleoresins (e.g. acetone ≤ 30 mg/kg, hexane ≤ 25 mg/kg)	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
Aflatoxins	B1 ≤ 2 µg/kg; sum of B1, B2, G1, G2 ≤ 4 µg/kg	HPLC-FLD
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 1–10%	AP0229-T110	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.
- 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.

7 Applications

Industries	Food & Beverage
Formulation focus	Natural Colours
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: USP, Ph. Eur. (EP), EMA herbal monograph.
- 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-AP0229** for hazard, handling and transport information. Certificates of Analysis are issued per lot and are available on request.