Evening Primrose Extract (Oenothera biennis) – Linoleic Acid 65–80%

Oenothera biennis · Onagraceae

DOCUMENT	PRODUCT CODE	DOCUMENT NO.	REVISION	PRODUCT FORM
Technical Data Sheet	AP0817	TDS-AP0817	1.0 · 24 October 2026	Standardized Extract

1 Product description

Evening Primrose extract is produced from the seed oil of Oenothera biennis (Onagraceae family) and supplied as a standardised oil, standardized to Linoleic acid. Available grades: Typical 65–80%. Typical sourcing: China, Canada. Intended for B2B formulation in nutraceuticals & supplements, cosmetics & personal care.

2 Identification

Botanical source	*Oenothera biennis* (Onagraceae)
Common name(s)	Evening primrose
Plant part used	Seed
Typical origin	China, Canada
Marker compound	Linoleic acid (Fatty acids)
Manufacturing process	Mechanical pressing and/or extraction of the seed or fruit (supercritical CO2 or food-grade solvent), refined and standardised to the stated fatty-acid content
Standardisation	65–80% (GC)
Assay method	GC
Pharmacopoeia & standards	Ph. Eur. (EP), EMA herbal monograph

3 Specification

PARAMETER	SPECIFICATION	METHOD
Appearance	Clear oily liquid; pale yellow to golden	Visual
Odour	Characteristic	Organoleptic
Identification	Conforms (GC fatty-acid profile vs. reference)	GC-FID (FAME)
Content – Linoleic acid	Not more than 80% (typical 65–80%)	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 Directive 2009/32/EC extraction-solvent limits (where solvent-extracted)	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 65–80%	AP0817-T6580	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	Nutraceuticals & Supplements, Cosmetics & Personal Care
Formulation focus	Men's Health, Women's Health, Skin & Hair Care
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), 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-AP0817** for hazard, handling and transport information. Certificates of Analysis are issued per lot and are available on request.