

18β-Glycyrrhetic Acid Powder – Natural Isolate up to 99% from Licorice (*Glycyrrhiza glabra*)

Glycyrrhiza glabra · Fabaceae

DOCUMENT Technical Data Sheet	PRODUCT CODE AP0547	DOCUMENT NO. TDS-AP0547	REVISION 1.0 · 24 October 2026	PRODUCT FORM Botanical Isolate
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1 Product description

Licorice extract is produced from the root of *Glycyrrhiza glabra* (Fabaceae family) and supplied as a enriched extract and natural isolate (grade-dependent) of 18β-Glycyrrhetic acid. Available grades: 10%, 40%, 98%, 99%. Typical sourcing: India, China, Turkey, Iran. Intended for B2B formulation in nutraceuticals & supplements, cosmetics & personal care, pharmaceutical.

10% 40% 98% 99%

2 Identification

Botanical source	<i>Glycyrrhiza glabra</i> (Fabaceae)
Common name(s)	Licorice, Yashtimadhu
Plant part used	Root
Typical origin	India, China, Turkey, Iran
Marker compound	18β-Glycyrrhetic acid (Triterpenoids & triterpene saponins)
Manufacturing process	Solvent extraction and chromatographic enrichment; grades of 90% and above are further purified by crystallisation
Standardisation	10–99% (HPLC)
Assay method	HPLC
Pharmacopoeia & standards	USP, Ph. Eur. (EP), British Pharmacopoeia, Indian Pharmacopoeia, Ayurvedic Pharmacopoeia of India, Chinese Pharmacopoeia, Japanese Pharmacopoeia, EMA herbal monograph, WHO monograph

3 Specification

PARAMETER	SPECIFICATION	METHOD
Appearance	Off-white to light yellow powder; higher grades crystalline	Visual
Odour	Characteristic	Organoleptic
Identification	Conforms (HPTLC / HPLC fingerprint vs. reference)	HPTLC / HPLC
Assay – 18β-Glycyrrhetic acid	Not less than the labelled grade (10%, 40%, 98%, 99%)	HPLC
Grades ≥ 90%	Additionally: loss on drying ≤ 1.0%, residue on ignition ≤ 0.5%	USP <731>, <281>
Loss on drying	≤ 5.0%	USP <731>
Total ash	≤ 5.0%	USP <561>
Particle size	≥ 95% through 80 mesh (180 μm)	USP <786>
Bulk density	Report (typically 0.40–0.70 g/mL)	USP <616>
Residual solvents	Complies with ICH Q3C / USP <467>	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
Total aerobic microbial count	≤ 10,000 cfu/g	USP <2021>
Yeasts & moulds	≤ 1,000 cfu/g	USP <2021>
Escherichia coli	Absent in 10 g	USP <2022>
Salmonella spp.	Absent in 25 g	USP <2022>
Staphylococcus aureus	Absent in 10 g	USP <2022>

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
10%	AP0547-10	Sample (50 g) · 250 g · 1 Kg · 5 Kg · 25 Kg
40%	AP0547-40	Sample (50 g) · 250 g · 1 Kg · 5 Kg · 25 Kg
98%	AP0547-98	Sample (1 g) · 50 g · 250 g · 1 Kg
99%	AP0547-99	Sample (1 g) · 50 g · 250 g · 1 Kg

Made-to-order grades: 10%, 40%.

5 Packaging

- Samples: food-grade HDPE jar or aluminium-laminate pouch.
- 250 g – 1 Kg: food-grade LDPE bag sealed in an aluminium-laminate pouch.
- 5 Kg – 25 Kg: double food-grade LDPE bags in a fibre drum or HDPE pail.
- 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 in a cool (below 25 °C), dry place, protected from light.
- Hygroscopic: reseal immediately after use and minimise exposure to humid air.

7 Applications

Industries	Nutraceuticals & Supplements, Cosmetics & Personal Care, Pharmaceutical
Formulation focus	Digestive & Gut Health, Respiratory Health, Skin & Hair Care
Traditional systems	Ayurveda, Traditional Chinese Medicine, 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), British Pharmacopoeia, Indian Pharmacopoeia, Ayurvedic Pharmacopoeia of India, Chinese Pharmacopoeia, Japanese Pharmacopoeia, EMA herbal monograph, WHO 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.

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