Glycyrrhizin 98%

$C_{42}H_{62}O_{16}$ · CAS 1405-86-3 · Glycyrrhizic acid, purified from licorice root

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

IDENTITY / FORM	FORMULA	CAS	PRIMARY ASSAY
Glycyrrhizic acid, purified from licorice root	$C_{42}H_{62}O_{16}$	1405-86-3	≥98.0% (HPLC)
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
HPLC with UV detection	1 kg	3–10 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

A 98% glycyrrhizic acid powder for flavour and sweetness modification, with the salt form, use level and taste profile stated before the sample ships.

SWEETNESS

50–100 × sucrose, indicative; slow onset and a long liquorice linger

TASTE NOTE

Liquorice sweetness with a slow onset and a very long tail; at high dose the anise note dominates.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Glycyrrhizic acid	≥98.0% (HPLC)	As stated
Appearance	White to light yellow powder	As stated
Moisture	≤6.0%	As stated
pH (1% solution)	4.5–6.5	As stated
Solubility	Sparingly soluble in water; soluble in alkaline solution	As stated
Particle size	≥95% through 80 mesh	As stated
Bulk density	0.35–0.65 g/mL	As stated
Ash	≤1.0%	As stated
Heavy metals	Pb ≤0.5 · As ≤0.5 · Cd ≤0.5 · Hg ≤0.1 mg/kg	As stated
Microbiology	APC ≤1,000 cfu/g · yeast and mould ≤100 cfu/g · E. coli and Salmonella absent	As stated
Marker / profile	Glycyrrhizic acid ≥98%	Identity
Solubility	Sparingly soluble in water; solubility rises with pH, which is why the salt form is often easier to formulate.	Matrix dependent

PARAMETER	SPECIFICATION	METHOD / NOTE
Starting use level	0.002–0.02% in food, depending on the category and the desired liquorice note	Application dependent
pH behaviour	More soluble and stable at neutral to mildly alkaline pH; acidic beverages need a solubility and taste check.	Matrix dependent

APPLICATIONS

- Flavour systems
- Confectionery
- Sauces
- Beverages
- Oral care

AVAILABLE FORMS

- Powder, 80 mesh
- Granular on request

PACKING

- 1 kg foil pouch
- 25 kg fiber drum

STORAGE

Store in a cool, dry, well-ventilated area, away from direct sunlight and moisture. Keep the pack closed after sampling. The lot-specific retest date is shown on the batch COA.

DOCUMENTATION RELEASED WITH EACH LOT

- Batch-specific certificate of analysis
- Technical data sheet and safety data sheet
- Allergen, GMO, origin and residual-solvent statements
- Third-party reports on request

Catalog document. This TDS describes the grade we can quote. The final specification, pack and documentation are confirmed in writing before the order. It is not a batch COA and does not report a result for a specific lot.

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