品鸿生物科技
Pinhon Biotechnology

TECHNICAL DATA SHEET

PINHONBIO® Licochalcone A 10%

A water-soluble licorice-root extract prepared with hydroxypropyl beta-cyclodextrin. The finished powder is standardised for both licochalcone A and total flavonoids.

Botanical INCI name	GLYCYRRHIZA INFLATA ROOT EXTRACT
CAS number of licochalcone A	58749-22-7
Plant part / extraction solvents	Root / ethanol and water
Excipient	Hydroxypropyl beta-cyclodextrin

Quality specifications

Parameter	Specification
Licochalcone A (HPLC)	≥10.0%
Total flavonoids (UV)	≥15.0%
Appearance	Light yellow powder
Solubility	Freely soluble in water
Identification (TLC)	Sample spots match the positions of the reference standard spots.
Odour	Characteristic
Particle size	≥95% passes an 80-mesh sieve
Ash	≤3.0%
Moisture	≤2.0%
Residual ethanol	≤1,000 ppm
Pesticide residues	DDT and BHC (HCH) each ≤1.0 ppm
Elemental limits	As ≤1.0, Pb ≤2.0, Hg ≤0.1 and Cd ≤1.0 mg/kg
Total plate count	≤1,000 CFU/g
Yeasts and moulds	≤100 CFU/g
Escherichia coli and Salmonella spp.	Each: not detected

Formulation guidance

Evaluate dissolution in the water phase at the intended use level. Use the HPLC assay when calculating the licochalcone A contribution to the finished formula.

Packaging and storage

Two food-grade plastic liners tied with cotton cord, in a kraft paper bag or fibre drum. Store tightly closed in a cool, dry place protected from light. Shelf life is 24 months from manufacture under these conditions.

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