Scutellarein Powder – Natural Isolate up to 98% from Baikal Skullcap (Scutellaria baicalensis)

Scutellaria baicalensis · Lamiaceae

DOCUMENT	PRODUCT CODE	DOCUMENT NO.	REVISION	PRODUCT FORM
Technical Data Sheet	AP1104	TDS-AP1104	1.0 · 24 October 2026	Botanical Isolate

1 Product description

Baikal Skullcap extract is produced from the root of Scutellaria baicalensis (Lamiaceae family) and supplied as a enriched extract and natural isolate (grade-dependent) of Scutellarein. Available grades: 10%, 40%, 98%. Typical sourcing: China. Intended for B2B formulation in nutraceuticals & supplements, cosmetics & personal care, pharmaceutical.

10% 40% 98%

2 Identification

Botanical source	*Scutellaria baicalensis* (Lamiaceae)
Common name(s)	Baikal skullcap, Huang Qin
Plant part used	Root
Typical origin	China
Marker compound	Scutellarein (Flavones)
CAS number	529-53-3
Manufacturing process	Solvent extraction and chromatographic enrichment; grades of 90% and above are further purified by crystallisation
Standardisation	10–98% (HPLC)
Assay method	HPLC
Pharmacopoeia & standards	USP, Chinese Pharmacopoeia, Japanese Pharmacopoeia

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 – Scutellarein	Not less than the labelled grade (10%, 40%, 98%)	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%	AP1104-10	Sample (50 g) · 250 g · 1 Kg · 5 Kg · 25 Kg
40%	AP1104-40	Sample (50 g) · 250 g · 1 Kg · 5 Kg · 25 Kg
98%	AP1104-98	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	Liver & Detox, Respiratory Health, Skin & Hair Care, Healthy Inflammation Response
Traditional systems	Traditional Chinese Medicine

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, Chinese Pharmacopoeia, Japanese Pharmacopoeia.
- 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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