



KEEP INGREDIENTS CO. LTD

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710119, China

TECHNICAL DATA SHEET

Cycloastragenol 98%

1. PRODUCT DESCRIPTION

Cycloastragenol is a high-purity, plant-derived single compound, standardized to a minimum of 98% purity (determined by HPLC). It is a native plant product of China, derived from Astragalus membranaceus (extracted from the dry above-ground part, using water and alcohol as extraction solvents). The product is a white fine powder and is a raw material / reference compound applicable only to food and dietary supplement end products.

2. PRODUCT INFORMATION

Item	Information
Product name	Cycloastragenol (Purity: 98%)
CAS number	78574-94-4
Botanical source	Astragalus membranaceus (native plant of China)
Extracted part	Dry above-ground part
Extraction solvent	Water + alcohol
Properties	White powder; 80 mesh
Classification	High-purity plant-derived single compound (raw material / reference compound)
Application scope	Only applicable to food / dietary supplement end products
Supplier	KEEP INGREDIENTS CO. LTD, Xi'an, Shaanxi, China
Country of origin	China
Shelf life	2 years
Packing	Paper drum with two plastic bags inside; net weight 25 kg; dimensions I.D. 35 × H51 cm

3. FUNCTIONS

- It has an effect on relieving stress and protecting the body against various stresses, including physical, mental, or emotional stress.
- It has the function of enhancing immunity, protecting the body from diseases such as cancer and diabetes.
- It contains antioxidants, which protect cells against damage caused by free radicals.
- It is used to protect and support the immune system, and has antibacterial and anti-inflammatory properties, for preventing colds and upper respiratory infections.
- It has an effect on lowering blood pressure, treating diabetes and protecting the liver.



4. COMPOSITION

Component	Specification	Test method
Cycloastragenol	≥ 98.0%	HPLC (210 nm)
Other naturally occurring minor components	≤ 2.0%	—

Note on minor components: consists of plant-derived trace impurities, homologs and residual substances (e.g. trace minerals, plant fibre), accounting for approximately 1.69% in total.

Nutrition facts: this product does not contain protein, fat, carbohydrates, vitamins or other conventional nutritional components, as it is a high-purity single-compound raw material.

5. PRODUCT SPECIFICATION

Item	Specification	Result
Description	White powder	White powder
Assay	Cycloastragenol 98%	98.4%
Mesh size	100% pass 80 mesh	Qualified
Loss on drying	≤ 2.0%	0.82%
Heavy metals	≤ 10 ppm	Qualified
Lead (Pb)	≤ 2 ppm	Qualified
Arsenic (As)	≤ 2 ppm	Qualified
Mercury (Hg)	≤ 1 ppm	Qualified
Cadmium (Cd)	≤ 0.5 ppm	Qualified
Total plate count	≤ 10,000 cfu/g	Qualified
Yeast & mould	≤ 1,000 cfu/g	—
E. coli	Negative	Negative
Salmonella	Negative	Negative
GMO free	Complies	Complies
Non-irradiation	Complies	Complies

Specification per the supplied technical data sheet.

6. STORAGE AND TRANSPORTATION

- Keep in a cool and dry place; keep away from strong light and heat.
- Shelf life: 24 months under the above conditions and in its original packaging.



7. CERTIFICATE OF ANALYSIS

Field	Detail
Product name	Cycloastragenol
CAS number	78574-94-4
Batch number	KYCYL2025101101
Manufacture date	20251011
Batch size	10.0 kg
Sampler	Dr. Wangxiangyun
Sampling size	100 mg
Lab environment	23.2 °C, 36% RH
Shelf life	2 years

Sensory analysis

Item	Requirement	Result
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Item	Requirement	Result
Source	Astragalus membranaceus	Conforms
Properties	Fine powder	Conforms
Colour	Off-white to white powder	Conforms
Odour	Characteristic	Conforms

Physical & chemical analysis

Item	Limit	Result
Purity	≥ 98%	98.4% (HPLC)
Loss on drying	≤ 5.0%	0.82% (CP2020)
Ash content	≤ 2.0%	0.32% (CP2020)
Mesh size	95% pass 80 mesh	100% pass 80 mesh (CP2020)
Heavy metals	≤ 10.00 mg/kg	0.50 mg/kg (CP2020)
Lead (Pb)	≤ 0.5 mg/kg	ND (LOQ 0.005 mg/kg, ICP-MS)
Arsenic (As)	≤ 1.0 mg/kg	ND (LOQ 0.005 mg/kg, ICP-MS)
Cadmium (Cd)	≤ 1.0 mg/kg	ND (LOQ 0.005 mg/kg, ICP-MS)
Mercury (Hg)	≤ 0.5 mg/kg	ND (LOQ 0.003 mg/kg, ICP-MS)

Microbiological analysis (per GB 4789.2, GB 4789.3, GB 4789.4, GB 4789.10, GB 4789.15)

Item	Limit	Result
Aerobic plate count	n=5, c=2, m=100 cfu/g, M=1000 cfu/g	<10, <10, <10, <10, <10
E. coli	Negative	Not found
Salmonella	Negative	Not found
S. aureus	Negative	Not found
Mould and yeast	≤ 100 cfu/g	<10 cfu/g

Analytical conditions

Item	Detail
Instrument	Agilent 1100 HPLC UV-VIS (VWD) detection
Column	Agela Venusil XBP C18, 4.6 × 250 mm
Mobile phase	A – Milli-Q water, B – acetonitrile; A:B = 50:50
Column temperature	30 °C
Flow rate	1.0 ml/min
Injection volume	5 µl
Injection concentration	MeOH
Detection	ELSD

Conclusion: the batch of Cycloastragenol has been tested and found to be qualified, with all indicators meeting the requirements.

