



Certificate of Analysis

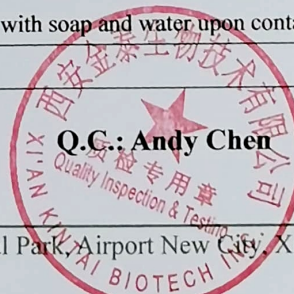
Product Name	Matrine powder	Botanical source	Sophora alopecuroide
Lot No.	KT20240726	Batch Quantity	271kg
Manufacture Date	2024/07/26	Expiry Date	2026/07/26
Extraction Solvent	Water/Ethyl alcohol	Country of origin	P.R.China
Non-Irradiated / Non-ETO/ Treat by Heat Only / Non-GMO			

Analysis Items	Specifications	Results	Test Method
Assay	Matrine≥98.0%	99.38%	HPLC
Identification	(1) White precipitate is generated (2) Generate orange precipitate (3) The retention time of the main peak of the test product should be consistent with The retention time of the control product was consistent.	Conforms	HP-TLC
Physical and chemical properties			
Appearance	White crystalline powder	Conforms	Visual
Odour	Odorless, bitter taste	Conforms	Organoleptic
Solubility	Very soluble in ethanol, chloroform, and toluene. Soluble in acetone. Dissolves in water, slightly soluble in hot water and petroleum ether.	Conforms	Organoleptic
Specific rotation	+31.0°~+36.0°	+32.6°	Polarimeter
PH value	9.5~10.5	10.1	pH meter
Particle Size	≥95% Through 80 mesh	Conforms	Ch.P.C.Rule47
Toluene	≤0.089%	Conforms	Gas Chromatography
Ash	≤0.1%	0.05%	Ch.P.C.Rule2302
Loss on drying	≤1.0%	0.17%	Ch.P.C.Rule52
Heavy Metals	≤10.0ppm	Conforms	Atomic Absorption
Residual Solvents			
- Ethanol	≤1000 PPM	Conforms	Gas Chromatography
Microbiological Quality (Total viable aerobic count)			
Total Plate Count,cfu/g	≤1000 CFU/g	Conforms	Ch.P.C.Rule80
Mold and yeast Count,cfu/g	≤100 CFU/g	Conforms	Ch.P.C.Rule80
*Storage Condition: Store in tightly closed plastic bag and keep in a cool dry place. Do not freeze. Keep always from strong direct light.			
*Shelf Life: 2 years when stored properly			
*Safety Precaution: Wearing of protective goggles or safety glasses is recommended.If accidentally instilled into the eyes,immediately rinse thoroughly with water and get medical care. Wash skin with soap and water upon contact.			
Conclusion	Confirm to Specification and Standards.		

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