



Certificate of Analysis			
Product Name	CYTISINE	CAS.NO	485-35-8
Lot No.	KT-20240802	Batch Quantity	47.4kg
Mfg Date	2024/08/02	Expiry Date	2026/08/02
Extraction Solvent	Water/Ethyl alcohol	Country of origin	P.R.China
Non-Irradiated / Non-ETO/ Treat by Heat Only / Non-GMO			
Analysis Items	Specification	Results	Test Method
Assay of Cytisine	≥98%	99.12%	HPLC
Identification	IR spectrum、UV spectrum	Complied	HPTLC
	Colour reaction		
	To comply with the test		
Physical and chemical properties			
Appearance	White or pale yellowish Powder	Complies	Visual
Odour	Slight, Specific	Conforms	Organoleptic
Particle Size	≥98% Through 80 mesh	Conforms	Ch.P.C.Rule47
Type of solution	Clarity-Not more intensely opalescent than reference suspension II	Complies	Observation
	colour - Not more intensely coloured than reference solution Y ₁	Complies	Observation
Solubility	Freely soluble in water and ethanol (96 per cent) ; Soluble In chloroform and acetonitrile	Complies	Observation
Loss on drying	≤5.0%	0.47%	Ch.P.C.Rule52
Specific optical rotation	From -120.0 [a] ₂₀ to -125.0 [a] ₂₀	-122.31 [a] ₂₀	Spectropolarimeter
Melting range,	From 154.0 °C to 157.0 °C	154.4°C -156.5 °C	Atomic Absorption
Ash	<0.10	0.07	High temperature
Chloride	≤0.02%	0.01%	Titration
Sulphates	≤0.03%	0.01%	Precipitation
Total impurities	<0.50%	0	HPLC
Heavy metals	≤20.0ppm	Conforms	Atomic Absorption
Residual Solvents			
- Ethanol	≤5000 ppm	2	GC
-Acetone	≤5000 ppm	572	GC
-Ethyl acetate	≤5000 ppm	1	GC
-Chloroform	<60ppm	3	GC
Microbiological Quality (Total viable aerobic count)			
Total Plate Count,cfu/g	≤1000 CFU/g	Conforms	30cfu/g
Mold and yeast Count,cfu/g	≤ 100 CFU/g	Conforms	<10cfu/g
E. coli	Negative	Conforms	Ch.P.C.Rule80
Salmonella	Negative	Conforms	Ch.P.C.Rule80
Staphylococcus aureus	Negative	Conforms	Ch.P.C.Rule80
*Storage Condition: Store in tightly closed plastic bag and keep in a cool dry place.			
*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 in case of contact.			
Conclusion	Confirm to Specification and Standards.		

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