



Certificate of Analysis

Product Name	Rhodiola rosea Extract Powder	CAS NUM	10338-51-9
Lot No.	KT20230610	Batch Quantity	1000kgs
Manufacture Date	2023/06/10	Expiry Date	2025/06/10
Extraction Solvent	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	Min. 98.0%	98.34%	HPLC
Physical and chemical properties			
Appearance	Amorphous Powder	Conforms	Visual
Odour	Slight, Specific	Conforms	Organoleptic
Colour	Light white or white powder	Conforms	Organoleptic
Solubility	Soluble in water, easily soluble in methanol, soluble in ethanol, hardly soluble in ether.		
Particle Size	≥95% Through 80 mesh	Conforms	Ch.P.C.Rule47
Ash	≤0.5%	0.2%	Ch.P.C.Rule2302
Loss on drying	≤5.0%	0.51%	Ch.P.C.Rule52
Heavy Metals	≤10.0ppm	Conforms	Atomic Absorption
Cadmium(Cd)	≤1ppm	Conforms	Atomic Absorption
Mercury(Hg)	≤0.1ppm	Conforms	Atomic Absorption
Arsenic(As)	≤2ppm	Conforms	Atomic Absorption
Lead(Pb)	≤2ppm	Conforms	Atomic Absorption
Residual Solvents			
- Ethanol	≤5000 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
E. coli	Negative	Negative	Ch.P.C.Rule80
Salmonella	Negative	Negative	Ch.P.C.Rule80
Staphylococcus aureus	Negative	Negative	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.			
*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.		

Analyst: Zou Yuchi

Checker: Wang Pan

