



CERTIFICATE OF ANALYSIS

Batch No.	GC202505251	Manufacturing Date	May 25, 2025
Sterilization Method	Heat NON-IRR	Expiration Date	May 24, 2028
Botanical Source	<i>Glycyrrhiza glabra L.</i>		
Appearance	Brown Yellow Fine Powder	Part Used	Root (100% Natural)
Solvents Used	Water		

ITEMS	SPECIFICATION	RESULT	METHOD
Ratio	10:1	10:1	TLC USP<201>
Identification	Correspond to Standard	Conform	TLC USP<201>
PHYSICAL CHARACTERISTICS			
Odor	Characteristic	Conform	Organoleptic
Taste	Characteristic	Conform	Organoleptic
Particle Size	NLT 95% Through 80 mesh	99.17%	Analytical sieving USP <786>
Loss on Drying	NMT 8.0 %	5.90%	USP <731>
Total Ash	NMT 12.0 %	5.10%	USP <561>
Bulk Density	Between 40~70 g/100mL	56.55 g/100mL	USP <616> Method I
CHEMICAL CHARACTERISTICS			
Residual Solvent	NMT 5,000 ppm	Conform	GC USP <467>
Pesticide Residue	Meet the Requirements	Conform	GC USP <561>
Heavy Metals(as Pb)	NMT 10 ppm	Conform	USP <231> Method II
Arsenic (As)	NMT 2 ppm	0.362 ppm	ICP-MS USP <233>
Lead (Pb)	NMT 2 ppm	0.517 ppm	ICP-MS USP <233>
Cadmium(Cd)	NMT 1 ppm	0.189 ppm	ICP-MS USP <233>
Mercury(Hg)	NMT 1 ppm	0.097 ppm	ICP-MS USP <233>
MICROBIOLOGICAL CHARACTERISTICS			
Total Plate Count	NMT 10,000 cfu/g	300 cfu/g	USP<61>
Total Yeast & Mold	NMT 1,000 cfu/g	30 cfu/g	USP<61>
<i>E. Coli</i>	Not Detected in(g) 10	Not Detected	USP<62>
<i>Salmonella</i>	Not Detected in(g) 10	Not Detected	USP<62>
<i>Staphylococcus</i>	Not Detected in(g) 10	Not Detected	USP<62>