



Xi'an Green Spring Technology Co.,Ltd

### Certificate of Analysis

Product Name	Valerian Extract		
Botanical Source	Valeriana officinalis L.	Plant part used	Root
Batch Number	2024041102GS	Quantity	550kgs
Manufacture Date	Apr.11,2024	Analysis Date	Apr.13,2024
Item	Standard	Test Result	Test Method
Valerienic Acid	≥0.80%	0.84%	HPLC
Physical & Chemical			
Appearance	Dark Brown Fine Powder	Complies	Visual
Odor & Taste	Characteristic	Characteristic	Organoleptic
Particle Size	98% pass 80mesh	Complies	USP<786>
Extraction solvent	Ethanol & Water	Complies	
Loss on Drying	≤5.00%	1.98%	USP<731>
Ash	≤10.00%	2.74%	USP<281>
Bulk Density	40~60g/100ml	40g/100ml	USP<616>
Tap Density	60~90g/100ml	60g/100ml	USP<616>
Solvents Residue	Meet USP Requirements	Complies	USP<467>
Pesticides Residue	Meet USP Requirements	Complies	USP<561>
Heavy Metal			
As	≤2.0ppm	0.347ppm	ICP-MS
Pb	≤3.0ppm	0.391ppm	ICP-MS
Cd	≤1.0ppm	0.046ppm	ICP-MS
Hg	≤0.1ppm	0.078ppm	ICP-MS
Microbiological Test			
Total Plate Count	≤10,00cfu/g	10cfu/g	AOAC
Mold and Yeast	≤1,00cfu/g	20cfu/g	AOAC
E.Coli	Negative	Negative	AOAC
Salmonella	Negative	Negative	AOAC
Staphylococcus aureus	Negative	Negative	AOAC
Conclusion: Conform with specification,Non-GMO,Non-irradiation,Allergen Free,BSE/TSE Free.			
Storage: Store in cool and dry places. Keep away from strong light and heat			
Packing: By 25kgs/Drum, inner by double plastic bag			
Shelf Life: 36 months under the above condition, and in it's original package			

Quality Assurance: Liang Yan

