

## CERTIFICATE OF ANALYSIS

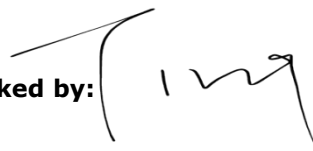
<b>Product Name</b>	Valerian Extract	<b>Manufacture Date</b>	2022/05/10
<b>Botanical Latin Name</b>	<i>Valerian officinalis L.</i>	<b>Expire Date</b>	2024/05/09
<b>Plant Part</b>	Root	<b>Issue Date</b>	2022/05/11
<b>Batch Quantity</b>	3000kg	<b>Batch Number</b>	V20220510

Items	Specification	Result	Test Method
<b>Physical&amp;Chemical Data</b>			
Appearance	Brown yellow fine powder	Conforms	Visual
Odor&Taste	Characteristic	Conforms	Organoleptic
Assay	Valerianic Acid $\geq 0.8\%$	0.84%	HPLC
Particle Size	100% pass 80mesh	Conforms	80 Mesh Screen
Identification	Positive	Conforms	TLC
Loss on Drying	$\leq 5.0\%$	3.21%	CP2015
Residue on Ignition	$\leq 10.0\%$	4.13%	CP2015
Bulk Density	0.3-0.6g/ml	0.43g/ml	CP2015
Tap Density	0.6-0.9g/ml	0.62g/ml	CP2015
<b>Heavy Metals</b>			
Heavy Metals	NMT10ppm	Conforms	Atomic Absorption
Lead(Pb)	NMT3ppm	Conforms	Atomic Absorption
Arsenic (As)	NMT2ppb	Conforms	Atomic Absorption
Mercury(Hg)	NMT0.1ppm	Conforms	Atomic Absorption
Cadmium(Cd)	NMT1ppm	Conforms	Atomic Absorption
<b>Microbiological</b>			
Total Plate Count	NMT10,000cfu/g	$\leq 1000$ cfu/g	CP2015
Total Yeast & Mold	NMT1000cfu/g	$\leq 100$ cfu/g	CP2015
E.coli	Negative	Conforms	CP2015
Salmonella	Negative	Conforms	CP2015
Staphylococcus	Negative	Conforms	CP2015
<b>General Status</b>	Non-GMO, Allergen Free, Non-Irradiation		
<b>Packaging&amp;Storage</b>	Packed in paper-drums and two plastic-bags Keep in cool & dry place. Stay away from strong light and heat.		
<b>Conclusion</b>	Qualified		

Tested by:



Checked by:



Approved by: