

## CERTIFICATE OF ANALYSIS

<b>Product &amp; batch Information</b>			
Product name:	Echinacea Purpurea P. E.	Country of Origin:	P. R. China
Botanic Name:	Echinacea Purpurea	Type of extraction:	Grain alcohol
Plant Part:	Herb & Root	Active ingredient:	Polyphenols
Exact Ratio:	About. 4 to 1	Analysis	300Kgs
<b>Analysis Item</b>	<b>Specification</b>	<b>Result</b>	<b>Test Method</b>
<b>Active Ingredients</b>			
Polyphenols	4:1	Conforms	
<b>Physical control</b>			
Identification	Positive	Conforms	TLC
Appearance	Fine green Powder	Complies	
Odor	Characteristic	Complies	
Taste	Characteristic	Conforms	Organoleptic
Extract Solvent	85% Grain Alcohol	Conforms	
Sieve Analysis	95% pass 80 mesh	Complies	
Loss on Drying	5% Max	3.10%	
Solubility	Soluble in Ethanol	Conforms	Visual
Ash	3% Max	1.87%	
<b>Chemical Control</b>			
Sulphate	0.5% Max	Complies	
Insolubles in Ethanol	10ppm Max	4.3ppm	
Ethanol Resides	0.2% Max	Complies	
Arsenic (As)	NMT 2ppm	Conforms	Atomic Absorption
Cadmium (Cd)	NMT 1ppm	Conforms	Atomic Absorption
Lead (Pb)	NMT 2ppm	Conforms	Atomic Absorption
Chlorate (Cl)	NMT 1ppm	Conforms	Atomic Absorption
Phosphate Organics	NMT 1ppm	Conforms	Gas Chromatography
Heavy Metals	20ppm Max	Complies	Atomic Absorption
Pesticides Residues	NMT 1ppm	Conforms	Gas Chromatography
<b>Microbiological Control</b>			
Total Plate Count	1000cfu/g Max	50cfu/g	
P.aeruginosa	Absent	Conforms	
S. aureus	Absent	Conforms	
Salmonella	Absent	Conforms	
Yeast & mold	50cfu/g Max	10cfu/g	
E. Coli	Negative	Negative	
Staphylococcus	Negative	Conforms	
Alfatoxins	NMT 0.2ppb	Absent	HPLC
Salmonella	Negative	Negative	
<b>Packing &amp; Storage</b>			
Packing	Pack in paper-drums and two plastic bags inside		
Storage	Store in a well-closed container away from moisture		
Shelf Life	2 years if sealed and store away from direct sun light		

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