

## **CERTIFICATE OF ANALYSIS**

Product Name Echinacea Extract
Batch Number PME140519
Batch Quantity 2000KG
Manufacture Date 2014-05-19
Expiration Date 2016-05-18

ANALYSIS	SPECIFICATION	RESULTS
Assay	Polyphenols≥7.0%	7.12% UV
	Cichoric acid≥2.0%	2.42% HPLC
Organoleptic		
Appearance	Fine Powder	Conforms
Color	Yellow-green	Conforms
Odor	Characteristic	Conforms
Taste	Characteristic	Conforms
Part Used	All herb	Conforms
Extract Solvent	Water&Ethanol	Conforms
<b>Physical Characteristics</b>		
Particle Size	NLT 100%Through 80 mesh	Conforms
Loss on Drying	$\leq 5.0\%$	3.02%
Ash content	$\leq 5.0\%$	3.26%
Bulk Density	40-60g/100ml	52g/100ml
Heavy metals		
Total Heavy Metals	≤20ppm	Conforms
Arsenic	≤2ppm	Conforms
Pb	≤2ppm	Conforms
<b>Microbiological Tests</b>		
Total Plate Count	$\leq 1000$ cfu/g	360cfu/g
Total Yeast & Mold	≤100cfu/g	15cfu/g
E.Coli	Negative	Negative
Salmonella	Negative	Negative
Staphylococcus	Negative	Negative

Packing and Storage: Packed in paper drums and two plastic bags inside. Store in well closed container away from moisture