

CERTIFICATE OF ANALYSIS

Product & batch Information			
Product name:	Burdock Root P. E. 4:1	Country of Origin:	P. R. China
Botanic Name:	Artium lappa L.	Type of extraction:	Grain alcohol
Plant Part:	Aerial Part (Dried, 100%)	Active ingredient:	Arctiin & Arctigein
Exact Ratio:	About 4 parts to 1 Extract	Analysis	800Kgs/12 drums
Analysis Item	Specification	Result	Test Method
Active Ingredients			
Assay	4:1	Conforms	
Arctiin & Arctigen	NLT 0.5%	0.52%	HPLC
Physical control			
Identification	Positive	Conforms	TLC
Appearance	Fine Powder	Complies	Visual
Color	Brown	Complies	Visual
Odor	Characteristic	Complies	Organoleptic
Taste	Characteristic	Conforms	Organoleptic
Sieve Analysis	100% pass 80 mesh	Complies	80 Mesh Screen
Loss on Drying	5% Max	2.33%	5g/105C/5hrs
Solubility	Solube in water and alcohol	Conforms	Visual
Ash	5% Max	2.67%	2g/525C/5hrs
Chemical Control			
Sulphate	0.5% Max	Complies	2g/525C/5hrs
Insolubles in Ethanol	10ppm Max	4.2ppm	\
Ethanol Residues	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
Microbiological Control			
Total Plate Count	1000cfu/g Max	10cfu/g	
P.aeruginosa	Absent	O.K.	
S. aureus	Absent	O.K.	
Salmonella	Absent	O.K.	
Yeast & mold	50cfu/g Max	10cfu/g	
E. Coli	Negative	Negative	
Staphylococcus	Negative	Conforms	
Alfatoxins	NMT 0.2ppb	Absent	HPLC
Salmonella	Negative	Negative	
Packing & Storage			
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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