

CERTIFICATE OF ANALYSIS

Product & batch Information			
Product name:	Marshmallow P.E. 5:1	Country of Origin:	P. R. China
Botanic Name:	Althaea officinalis (L)	Type of extraction:	Ethanol 65%
Plant Part:	Root (Dried, 100% Natural)	Active ingredient:	Not test
Exact Ratio:	Approx. 5 to 1 extract	Analysis	200kg
Analysis Item	Specification	Result	Test Method
Extract Ratio	5:1	Conforms	
Physical control			
Identification	Positive	Conforms	TLC
Appearance	Brown Yellow Powder	Complies	Visual
Odor	Characteristic	Complies	Organoleptic
Taste	Characteristic	Conforms	Organoleptic
Loss on Drying	5% Max	4.28%	5g/105C/4hrs
Ash	5% Max	3.17%	2g/525C/3hrs
Extract method: Material inspect, only past, Extract by 75% alcohol, recover alcohol. Be absorbed by absorption resin. Be Elute by grain alcohol, collect the useful part, concentrate to powder, inspect, only past, package in cleaning room.			
Chemical Control			
Sulphate	0.5% Max	Complies	2g/525C/3hrs
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
Microbiological Control			
Micro control: Pipeline be santize, pure water and sterilize by 193 C steam and be approved by QA, extract by 80 C, 75% grain alcohol more than 2 hours, all the pipeline are well insealed and made from food grade stainless steal, package in cleaning room.			
Total Plate Count	1000cfu/g Max	50cfu/g	FDA BAM 8 th Ed.
P.aeruginosa	Absent	O.K.	FDA BAM 8 th Ed.
S. aureus	Absent	O.K.	FDA BAM 8 th Ed.
Salmonella	Absent	O.K.	FDA BAM 8 th Ed.
Yeast & mold	50cfu/g max	10cfu/g	FDA BAM 8 th Ed.
E. Coli	Negative	Negative	FDA BAM 8 th Ed.
Staphylococcus	Negative	Conforms	FDA BAM 8 th Ed.
Alfatoxins	NMT 0.2ppb	Absent	FDA BAM 8 th Ed.
Salmonella	Negative	Negative	FDA BAM 8 th Ed.
Packing & Storage			
Packing	25kg/drum, packaging in paper-drums and two plastic bags		
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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