

CERTIFICATE OF ANALYSIS

Product & batch Information			
Product name:	Calendula Flower 4:1	Country of Origin:	P. R. China
Botanic Name:	Calendula officinalis	Type of extraction:	Grain alcohol
Plant Part:	Aerial part (Dried, 100% Natural)	Active ingredient:	
Exact Ratio:	About 4 parts to 1 extract	Analysis	300 kgs/12 drums
Analysis Item	Specification	Result	Test Method
Active Ingredients			
Assay	4:1	Conforms	
Physical control			
Identification	Positive	Conforms	TLC
Appearance	Fine Powder	Complies	Visual
Colour	Brown-Yellow	Complies	Visual
Odor	Characteristic	Complies	Organoleptic
Taste	Characteristic	Conforms	Organoleptic
Loss on Drying	5% Max	4.35%	5g/105C/4hrs
Solubility	Soluble in water and alcohol	Conforms	Visual
Ash	5% Max	3.66%	2g/525C/3hrs
Chemical Control			
Sulphate	0.5% Max	Complies	2g/525C/3hrs
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		

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