

### CERTIFICATE OF ANALYSIS

<b>Product &amp; batch Information</b>			
Product name:	Dong Quai P. E. 4:1	Country of Origin:	P. R. China
Botanic Name:	Angelicae sinensis	Type of extraction:	Grain alcohol
Plant Part:	Root (Dried, 100% Natural)	Active ingredient:	Ligustilides
Exact Ratio:	About. 4 parts to 1 Extract	Analysis	1500Kgs
Analysis Item	Specification	Result	Test Method
<b>Active Ingredients</b>			
Assay	4:1	Conforms	
<b>Physical control</b>			
Identification	Positive	Conforms	TLC
Appearance	Fine Powder	Complies	Visual
Colour	Black- 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	3.45%	5g/105C/5hrs
Solubility	Soluble in water and alcohol	Conforms	Visual
Ash	5% Max	3.25%	2g/525C/5hrs
<b>Chemical Control</b>			
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
<b>Microbiological Control</b>			
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	
<b>Packing &amp; Storage</b>			
Packing	Pack in paper-drums and two plastic bags inside		

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