



西安锐博生物科技有限公司
XiAnRainbow Biotech Co.,Ltd.



Certificate of Analysis

Product Name	Echinacea extract	Batch Number	ZZJ-131028
Part Used	Overground part	Manufacture Date	2013.10.28
Quantity	500 Kg	Expiry Date	2015.10.28
ITEM	SPECIFICATION	RESULT	TEST METHOD
Assay :			
Total phenols 4% (chicory acid, caffeic acid and chlorogenic acid + echinacea glucoside)	4%--5%	4.10%	HPLC USP 32
Description :			
Appearance	Yellow green powder	Complies	Visual
Odor	Characteristic	Complies	Organoleptic
Particle Size	100% pass 80 mesh	Complies	80 Mesh Screen
Extract solvents	Water and Ethanol	Complies	
Physical :			
Loss on drying	≤5.00%	3.76%	5g/105°C/2hrs
Acid-insoluble ash	≤5.00%	3.61%	
Chemical :			
Solvent residual (Ethanol)	<5000ppm	Complies	GC
Heavy metals	<10ppm	Complies	Atomic Absorption
Arsenic (As)	<1ppm	Complies	Atomic Absorption
Lead(Pb)	<1 ppm	Complies	Atomic Absorption
Cadmium(Cd)	<1ppm	Complies	Atomic Absorption
Mercury(Hg)	Not Detected	Complies	Atomic Absorption
Residual Pesticide:			
BHC	<0.1 ppm	Complies	
DDT	<0.1 ppm	Complies	
PCNB	<0.1 ppm	Complies	
Microbial :			
Total microbacterial count	≤NMT1,000cfu/g	Complies	
Total Yeast & Mold	≤NMT100cfu/g	Complies	
Salmonella	Negative	Complies	
E.Coli	Negative	Complies	
Packing & Storage:			
Packed in paper-drums and two plastic-bags inside.N.W.:25kgs .I.D.35cm×H51cm Store in a well-closed container Away from moisture.			

QC: Ma Wen Bin 2013.10.30

QA: matin 2013.10.30