



SHAANXI KEPLER BIOTECH CO., LTD

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CERTIFICATE OF ANALYSIS

Product Name	Red Clover Extract	Batch Number	202005007
Latin Name	<i>Trifolium pratense L</i>	Manufacture Date	May.09.2020
Plant Part Used	Leaves & Flowers	Expiry Date	May.08.2022
Quantity	500kgs /-20-drums	Product code No	C015
ITEMS	SPECIFICATION	RESULTS	TEST METHODS
Appearance	Yellow brown fine powder	Conforms	Visual
Odor&Taste	Characteristic	Conforms	Organoleptic
Total isoflavones	≥8.0%	9.07%	HPLC
Daidzein		2.41%	
Genistein		0.21%	
Formononetin		5.40%	
Biochanin A		1.05%	
Loss on drying	≤5.0%	3.61%	2g/105°C/3hrs
Ash	≤5.0%	3.56%	2g/600°C/3hrs
Mesh Size/Sieve	NLT 95% Through 80 mesh	98% through	USP
Extract solvent	Alcohol 70% & water	Conforms	GC
Heavy Metals	≤10ppm	Conforms	AAS
Lead(Pb)	≤3ppm	Conforms	AAS
Arsenic(As)	≤2ppm	Conforms	AAS
Cadmium(Cd)	≤1ppm	Conforms	AAS
Mercury (Hg)	≤1ppm	Conforms	AAS
Solvent residual	Ethanol<5000ppm Methanol<3000ppm	Conforms	GC
PAH (EP standard)	Sum PAH 4 < 50ppb	30.68ppb	GC-MS
Total Plate Count	≤10000cfu/g	Conforms	USP
Total Yeast & Mold	≤100cfu/g	Conforms	USP
E.Coli.	Negative	Conforms	USP
Salmonella	Negative	Conforms	USP
GMO Status	Non-GMO	Conforms	PCR / Elisa
Irradiation	Irradiation Free	Conforms	USP
Packing	Packed in paper-drums and two plastic-bags inside.N.W.:25kgs .I.D.36cm×H51cm		
Storage	Store in a well-closed container Away from moisture.		
Shelf Life	2 years if sealed and store away from direct sun light.		

Zhaojingjing

Quality Assurance Officer

Yuyan

Analyst