



## CERTIFICATE OF ANALYSIS

Product Name	Red Clover Extract	Latin Name	<i>Trifolium pratense L</i>
Batch No.	230221	Quantity	100KG
Manufacturing Date	Feb. 21, 2023	Expiry Date	Feb. 20, 2025
<b>Standard: CP2020</b>			
<b>Test items and results</b>			
Item	Specification	Method	Result
Assay	Isoflavones $\geq$ 40%	HPLC	40.2%
	Daidzein		0.7%
	Genistein		0.8%
	Formononetin		19.1%
	Bilchanin A		19.6%
<b>Physical &amp; Chemical Testing</b>			
Appearance	Yellow brown fine powder	Visual	Conforms
Odor&Taste	Characteristic	Organoleptic	Conforms
Loss On Drying	$\leq$ 5.0%	2g/105°C/3hrs	2.30%
Ash	$\leq$ 5.0%	2g/575°C/3hrs	0.96%
Sieve Analysis	NLT 95% pass 80 mesh	CP2020	Conforms
Heavy Metals	$\leq$ 10ppm	AAS	Conforms
As	$\leq$ 2ppm	AAS	Conforms
Pb	$\leq$ 3ppm	AFS	Conforms
Hg	$\leq$ 1ppm	AFS	Conforms
Cd	$\leq$ 1ppm	AFS	Conforms
<b>Microbiological Testing</b>			
Total plate count	$\leq$ 1000cfu/g	GB 4789.2-2016	Conforms
Yeast & mold	$\leq$ 100cfu/g	GB 4789.15-2016	Conforms
E.coli	Not detected	GB 4789.38-2016	Not detected
Salmonella	Not detected	GB 4789.4-2016	Not detected
GMO Status	Non-GMO	PCR / Elisa	Conforms
Shelf life and Storage	2 Years. Cool & dry place. Keep away from strong light and heat.		
Conclusion	Conform with specification. Non-GMO, Allergen Free, BSE/TSE Free.		
Analyst	王静华	Review	张慧沟 Supervisor of QC

