



武汉福鑫化工有限公司

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CERTIFICATE OF ANALYSIS

Products Name	CAS NO.	Batch No.
Vitamin B12	68-19-9	20230329
Mfg. Date	Exp. Date	Package
Mar., 29, 2023	Mar., 28, 2025	25kg/Fibre Drum

Items	Specifications	Results
Appearance	Dark red crystals or dark red crystalline powder.	Complies
Identification A	UV : Absorption maxima at $278 \pm 1\text{nm}$, $361 \pm 1\text{nm}$ and $550 \pm 2\text{nm}$.	Complies
	A361nm/A278nm: 1.70~1.90 A361nm/A550nm: 3.15~3.45	1.84 3.26
Identification B	Cobalt: Meets the USP requirements	Complies
Loss on drying	$\leq 10.0\%$	3.1%
Assay	97.0%-102.0%	99.3%
Related substances	Total impurities $\leq 3.0\%$	1.0%
Acetone	$\leq 5000\text{ppm}$	139ppm
The total aerobic microbial count	$\leq 1000\text{cfu/g}$	$< 10\text{cfu/g}$
The total combined yeasts/mould count	$\leq 100\text{cfu/g}$	$< 10\text{cfu/g}$
Conclusion	The product conforms to the USP43.	

Q.C.: Luo Xiaofeng

Tester: AT02

Re-tester: AT03

