



Specification for
Vitamin B₁ Mononitrate 98% DC (Food Grade)

Test item	Specification	Method
Appearance	White or yellowish granule	Visual
Identification		
A. Reaction of fluorescence	The air-liquid meniscus shows a vivid blue fluorescence which disappears when the mixture is slightly acidified and reappears when it is again made alkaline	EP
B. Reaction of nitrates	Apply to a mixture of nitrobenzene and sulphuric acid, allow to stand and cool, add water, strong sodium hydroxide solution and acetone, the upper layer is colored deep violet	
Loss on drying	NMT 1.0%	EP
Sulphated ash	NMT 0.1%	EP
Heavy metals	NMT 0.001%	EP
pH	6.5 ~ 7.5	EP
Sulfide	NMT 0.01%	ChP
Chloride	NMT 0.05%	ChP
Bulk density	0.50~0.70 g/mL	USP
Tapped density	0.60~0.80 g/mL	USP
Particle size		
through 2,000 µm	NLT 99%	Sieving, in-house
through 850 µm	NLT 90%	
through 150 µm	NMT 35%	
Vitamin B₁ Mononitrate content	96.0% ~ 99.0%	EP



Test item	Specification	Method
Heavy metals		
Lead	≤0.5 mg/kg	AAS, in-house
Cadmium	≤0.5 mg/kg	
Arsenic	≤0.5 mg/kg	
Mercury	≤0.1 mg/kg	
Microbials		
Total Aerobic Microbial Count	NMT 100 cfu/g	ChP
Total Yeasts and Moulds Count	NMT 10 cfu/g	
E. Coli	Negative	
Salmonella	Negative	
S. Aureus	Negative	

Additional information:

Country of origin: China

Retest period: 36 months (3 years)

Standard packaging: 25 kg net per fiber drum or carton with 2-layer PE inner bag

Storage: Preserve in tight non-metallic containers, protected from light.

Approved by: Zhang Ping

Designation: QA Manager

Last update: Jan 2, 2029

Signature:

