

CERTIFICATE OF ANALYSIS

Product name: Vitamin B₁ Food Grade Batch No.: TN19032021

Manufacturing date: Mar 5, 2019 Reporting date: Mar 7, 2019

Retest date. Mar 4, 2023 Quantity: 1,000 kg

Package: 25 kg per carton Package size: 390 × 290 × 450 (mm)

Article No.: 06102 Irradiation / ETO treatment: No

Article No.: 06102		Irradiation / ETO treatment: No		
Test Item	Specification	Method	Result	
Description	White crystals or crystalline powder	Visual	White crystalline powder	
Identification				
Color reaction	A prown ring forms at the junction of the two liquids	USP	A brown ring forms at the junction of the two liquids	
Precipitate reaction	The color of the solution changes to brown and on standing a precipitate of lead sulfide forms	USP	The color of the solution changes to brown and on standing, a precipitate of lead sulfide forms	
Precipitate reaction	A white precipitate results from treatment with mercuric chloride, and a red-brown precipitate results from treatment with iodine, treatment with mercuric-potassium iodide and trinitrophenol also causes precipitates to form	USP	A white precipitate results from treatment with mercuric chloride, and a red-brown precipitate results from treatment with lodine treatment with mercuric-potassium iodide and trinitrophenol also causes precipitates to form	
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	USP	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	
Appearance of solution	Clear, not more intense than Y	ĘΡ	Clear, not more intense than Y-	
рН	6.8 ~ 7.5	EΡ	7.2	
Loss on drying	NMT 1.0%	LSP	0 14%	
Residue on ignition	NMT 0 1%	USP	0.04%	
Chloride	NMT 0 06%	USP	<<0.06%	
Related substances (Disre	egard fimit (0.05%)			
- Impurity A	NMT 0 15%	EP	Comply ,	
- Impurity B	NMT 0.6%	EP	Comply	
- Impurity C	NMT 0.4%	EP	Comply	
- Unspecified impurity	NMT 0.10%	EP	Comply	
- Total impurities	NMT 1.0%	EP	Comply	
Related compounds	NMT 1.0%	USP	0 27%	
Residual solvent - Methand	NMT 0.3%	GC, in-house	0.0049%	
Assay (on dry basis)	98.0% ~ 102.0%	USP	99.1%	

Add.: Le'anjiang Industrial Zone, Leping, Jiangxi, 333300, China Tel: =86-798-6702928 Fax: :86-798-6702928

CERTIFICATE OF ANALYSIS

Product name: Vitamin B₁ Food Grade Batch No.: TN19032021

Test Item	Specification	Method	Result
Heavy metals			
l.ead	<.0.5 mg/kg	AAS, in-house	<0.5 mg/kg
Cadmium	≤0.5 mg/kg	AAS, in-house	<0.5 mg/kg
Arsenic	11 0,5 mg/kg	AAS in-house	∞ 0,5mg/kg
Mercury	∴0.1 mg/kg	AAS in-nouse	<.ol> 10.1 mg/kg
Microbials			
Total Aerobic Microbia, Count	NMT 100 cfu/g	ChP	√.100 cfu/g
Total Yeasts and Moulds Count	NMT 10 cfu/g	ChP	<.10 cfu/g
E Coa	Negative	ChP	Negative
Sarmonerla	Negative	ChP	Negative
S Aureus	Negative	ChP	Negative

Conclusion:

This batch was analyzed and found to ment the specifications as given above.

Compendial compliance guarantee

This material meets all requirements of the following valid compendia when tested accordingly:

BP, EP, USP, FCC

Remark: Preserve in a tight non-metallic container, protected from light.

Reported by:

Approved by:

Add.: Le'anjiang Industrial Zone. Leping, Jiangxi, 333300, China

Tel +86-798-6702928

Page 2 of 2

Fax: -86-798-6702928