

Specifications Sheet

Product Description: Thiamine Mononitrate

PRODUCT: THIAMINE MONONITRATE98%DC

DATE: 2021.1.25

SPECIFICATION: Enterprise standards

PACKING: 25KG PER DRUM

SHELF LIFE: 3YEARS

EXAMINATION ITEMS	INDEX OF QUALITY	TEST METHOD
Appearance Identification	A White free-flowing, granular powder With a slight meat-like or yeasty odor. A: brown ring is produced at the Junction of the two liquids B: After dissolution of the sample, a yellow color is produced. After heating the solution, the color changes to brown and on standing. A precipitate of lead sulfide separates. C: A solution of Thiamine Mononitrate yields a white precipitate with mercuric chloride TS, and a red-brown precipitate with iodine TS. It also yields a precipitate with mercuric-potassium iodide TS, and with trinitrophenol TS D: When illuminated from above by a vertical beam of UV light and viewed at a right angle to this beam, the alr-liquid meniscus shows a vivid blue fluorescence, when the mixture is slightly acidified, but reappears when it is again made alkaline	BP2020/USP42 USP42
PH	6.5– 7.5	USP42
Arsenic	≤3ppm	FCC11
Cadmium	≤2ppm	
Lead	≤0.5ppm	
Mercury	≤0.1ppm	
Chloride	≤0.06%	USP42
Loss on drying	≤1.0%	USP42
Residual on ignition	≤0.2%	BP2020
Residual solvents	Meets the requirements	USP42
Chloride	≤ 0.6%	BP2020
Sieve analysis:	NLT 100% through a USS#10 NLT 95% through a USS#14 NMT 30% through a USS#100	USP42 USP42 USP42
Bulk density:	NLT 0.5g/ml	USP42
Tapped density:	NLT 0.6g/ml	USP42
Assay	96.0 – 99.0% Thiamine Mononitrate (calculated on a dry basis)	BP2020
Microbials		
- S.Aureus	negative	CHP2015
- Salmonella	negative	CHP2015
- E.Coli	negative	CHP2015
-Coliforms	1cfu/g Max	CHP2015
- Total Plate Count	≤1000cfu/g Max	CHP2015
- Yeast andMold	≤100cfu/g Max	CHP2015

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