



SPECIFICATION

Product Name	Vitamin B1 Thiamine Mononitrate
CAS No	532-43-4
Molecular Formula	C₁₂H₁₇N₅O₄S
Specification Version	USP35
Shelf Life	48 Months
Package	25kg/Drum

ITEM

Description	White crystals or crystalline powder
Identification	Meet the requirement
-Color reaction	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
-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
-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
Appearance of solution	Clear,not more intense than Y7
PH	6.8~7.5
Loss on drying	≤ 1.0%
Residue on ignition	≤ 0.1%
Chloride	≤0.06%
Related substances (Disregard limit:0.05%)	
-Impurity A	≤0.15%
-Impurity B	≤0.6%
-Impurity C	≤0.4%
-Unspecified impurity	≤0.10%
-Total impurities	≤1.0%
Related compounds	≤1.0%
Residual solvent-Methanol	≤ 0.3%
Assay(on dry basis)	98.0%~102.0%



Saminchem Inc

3225 Grapevine Street ▲ Mira Loma, CA 91752 U.S.A

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Heavy metals

-Lead	<0.5mg/kg
-Cadmium	<1.0mg/kg
-Arsenic	<1.0mg/kg
-Mercury	<0.1mg/kg

Microbials

Total Aerobic Microbial Count	≤ 100cfu/g
Total Yeast and Moulds Count	≤ 10cfu/g
E.Coli	Negative
Salmonella	Negative
S.Aureus	Negative

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Storage: Store in cool and dry place, in a well-close container, keep away from strong light and heat.

QINGDAO SAMIN CHEMICAL CO.,LTD.

A718 Heda Plaza, 177 Tailiu Road, Qingdao, China
Tel: +86 532 88960696 Fax: +86 53288960698
contact@saminchemical.com www.saminchemical.com