

## **CERTIFICATE OF ANALYSIS**

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by Intertek. Certificate Number. 2317548

Lot NumberA0473346DescriptionSodium tungstate dihydrate,99+%,ACS reagentCAS Number10213-10-2Quality Test/Release Date12/Jun/2025Suggested retest date12/Jun/2030Country of OriginINDIADeclaration of OriginsyntheticBSE/TSENot directly derived from or manufactured with any animal byproducts in any way (Including but not limited to fermentation or nutrier broth, catalysts, enzymes).Result NameUnitsAppearance (Color)White to light yellowAppearance (Form)Crystalline powder or flakesGravimetry%99.0 to 101.099.6Insoluble matter%Heavy metals Fe (as Pb)%Titrable free basemeq/gCIO)ppmPoint (CI)ppmPoint (CI)Point (CI)ppmPoint (CI)Point (CI)				
Description Sodium tungstate dihydrate,99+%,ACS reagent   CAS Number 10213-10-2   Quality Test/Release Date 12/Jun/2025   Suggested retest date 12/Jun/2030   Country of Origin INDIA   Declaration of Origin synthetic   BSE/TSE Not directly derived from or manufactured with any animal byproducts in any way (Including but not limited to fermentation or nutrier broth, catalysts, enzymes).   Result Name Units Specifications Test Value   Appearance (Color) White to light yellow White   Appearance (Form) Crystalline powder or flakes Crystals   Gravimetry % 99.0 to 101.0 99.6   Insoluble matter % =<0.01	Catalogue Number	42447		
CAS Number10213-10-2Quality Test/Release Date12/Jun/2025Suggested retest date12/Jun/2030Country of OriginINDIADeclaration of OriginsyntheticBSE/TSENot directly derived from or manufactured with any animal byproducts in any way (Including but not limited to fermentation or nutrient broth, catalysts, enzymes).Result NameUnitsSpecificationsTest ValueAppearance (Color)White to light yellowWhiteAppearance (Color)White to light yellowCrystalline powder or flakesGravimetry%99.0 to 101.099.6Insoluble matter%=<0.01	Lot Number	A0473346		
Quality Test/Release Date 12/Jun/2030   Suggested retest date 12/Jun/2030   Country of Origin INDIA   Declaration of Origin Synthetic   BSE/TSE Not directly derived from or manufactured with any animal byproducts in any way (Including but not limited to fermentation or nutrient broth, catalysts, enzymes).   Result Name Units Specifications Test Value   Appearance (Color) White to light yellow White   Appearance (Form) Crystalline powder or flakes Crystals   Gravimetry % 99.0 to 101.0 99.6   Insoluble matter % =<0.01	Description	Sodium tungstate dihydrate,99+%,ACS reagent		
Suggested retest date12/Jun/2030Country of OriginINDIADeclaration of OriginsyntheticBSE/TSENot directly derived from or manufactured with any animal byproducts in any way (Including but not limited to fermentation or nutrient broth, catalysts, enzymes).Result NameUnitsSpecificationsTest ValueAppearance (Color)White to light yellowWhiteAppearance (Form)Crystalline powder or flakesCrystalsGravimetry%99.0 to 101.099.6Insoluble matter%=<0.01	CAS Number	10213-10-	-2	
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Declaration of OriginsyntheticBSE/TSENot directly derived from or manufactured with any animal byproducts in any way (Including but not limited to fermentation or nutrient broth, catalysts, enzymes).Result NameUnitsSpecificationsTest ValueAppearance (Color)White to light yellowWhiteAppearance (Form)Crystalline powder or flakesCrystalsGravimetry%99.0 to 101.099.6Insoluble matter%=<0.01	Suggested retest date	12/Jun/2030		
BSE/TSENot directly derived from or manufactured with any animal byproducts in any way (Including but not limited to fermentation or nutrient broth, catalysts, enzymes).Result NameUnitsSpecificationsTest ValueAppearance (Color)White to light yellowWhiteAppearance (Form)Crystalline powder or flakesCrystalsGravimetry%99.0 to 101.099.6Insoluble matter%=<0.01	Country of Origin	INDIA		
BSE/TSE (Including but not limited to fermentation or nutrient broth, catalysts, enzymes).   Result Name Units Specifications Test Value   Appearance (Color) White to light yellow White   Appearance (Form) Crystalline powder or flakes Crystals   Gravimetry % 99.0 to 101.0 99.6   Insoluble matter % =<0.01	Declaration of Origin	synthetic		
Result NameUnitsSpecificationsTest ValueAppearance (Color)White to light yellowWhiteAppearance (Form)Crystalline powder or flakesCrystalsGravimetry%99.0 to 101.099.6Insoluble matter%=<0.01	BSE/TSE	Not directly derived from or manufactured with any animal byproducts in any way		
Appearance (Color)White to light yellowWhiteAppearance (Form)Crystalline powder or flakesCrystalsGravimetry%99.0 to 101.099.6Insoluble matter%=<0.01		(Including but not limited to fermentation or nutrient broth, catalysts, enzymes).		
Appearance (Form)Crystalline powder or flakesCrystallsGravimetry%99.0 to 101.099.6Insoluble matter%=<0.01=<0.01Heavy metals Fe (as Pb)%=<0.001=<0.001Titrable free basemeq/g=<0.02=<0.02Chloride (Cl)ppm=<5020Molybdenum (Mo)ppm=<10=<10				
Gravimetry % 99.0 to 101.0 99.6   Insoluble matter % =<0.01	Result Name	Units	Specifications	Test Value
Insoluble matter % =<0.01	Result Name Appearance (Color)	Units	•	
Heavy metals Fe (as Pb) % =<0.001		Units	White to light yellow	White
Titrable free base   meq/g   =<0.02   =<0.02     Chloride (Cl)   ppm   =<50	Appearance (Color)		White to light yellow Crystalline powder or flakes	White Crystals
Chloride (Cl)   ppm   =<50   20     Molybdenum (Mo)   ppm   =<10	Appearance (Color) Appearance (Form)	%	White to light yellow Crystalline powder or flakes 99.0 to 101.0	White Crystals 99.6
Molybdenum (Mo) ppm =<10 =<10	Appearance (Color) Appearance (Form) Gravimetry	%	White to light yellow Crystalline powder or flakes 99.0 to 101.0 =<0.01	White Crystals 99.6 =<0.01
	Appearance (Color) Appearance (Form) Gravimetry Insoluble matter	% % %	White to light yellow Crystalline powder or flakes 99.0 to 101.0 =<0.01 =<0.001	White Crystals 99.6 =<0.01 =<0.001
Sulfate (SO4) ppm =<100 26	Appearance (Color) Appearance (Form) Gravimetry Insoluble matter Heavy metals Fe (as Pb)	% % % meq/g	White to light yellow Crystalline powder or flakes 99.0 to 101.0 =<0.01 =<0.001 =<0.02	White Crystals 99.6 =<0.01 =<0.001 =<0.02
	Appearance (Color) Appearance (Form) Gravimetry Insoluble matter Heavy metals Fe (as Pb) Titrable free base	% % meq/g ppm	White to light yellow Crystalline powder or flakes 99.0 to 101.0 =<0.01 =<0.001 =<0.02 =<50	White Crystals 99.6 =<0.01 =<0.001 =<0.02 20

Geert Torfs Supervisor, QC

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third-party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of the catalogue number listed above.