

Certificate of Analysis

Product Name:	Thiamine Hydrochloride
Country of Origin:	China
Batch Number:	Varies
Manufacture Date:	Varies
Retest Date:	Varies
Test Results Obtair	ned by PureBulk

ITEMS	SPECIFICATIONS	RESULTS	
Thiamine H <mark>C</mark> L (HPLC)	98-102%	99.22%	
Lo <mark>s</mark> s on Drying (USP<731>)	≤5%	0.13%	
Aerobic Plate Count	≤1000 cfu/g	<20 cfu/g	
Coliforms	≤100 cfu/g	<20 cfu/g	
E. Coli	Negative	Absent	
Staph aureus	Negative	Absent	
Yeast & Mold	≤100 cfu/g	<20 cfu/g	
Salmonella	Negative	Absent	
Pseudo. aeruginosa	Negative	Absent	
Conclusion (PureBulk):	This product conforms to standards		

The following information is an indirect translation of information provided from the Manufacturer's Certificate of Analysis, and should not be used solely as an instrument for strict quality control.

ITEMS	SPECIFICATIONS	RESULTS
Appearance	White crystals or almost white crystalline	White crystalline powder
Identification	(1) Should be positive reaction	(1) Positive Reaction
	(2) Consistent with the reference IR	(2) Consistent with the reference IF
	spectra	spectra
Appearance of Solution	Clear, no more color than reference	Clear, no more color than reference
	solution Y7 or GY7	solution Y7
рН	2.7-3.3	3.0
Sulphates	≤300 ppm	<300 ppm
Limit of Nitrate	No brown ring is produced at the junction	No brown ring is produced at the
	of the two layers	junction of the two layers
Lead (Pb)	≤2 ppm	<2 ppm
Cadmium (Cd)	≤1.0 ppm	<1.0 ppm
Mercury (Hg)	≤0.1 ppm	< <mark>0.1 ppm</mark>
Arsenic (As)	≤1.0 ppm	<1.0 ppm
Residue on Ignition	≤0.1%	0.06%
Absorbance of Solution	≤0.025	0.011
Methanol	≤0.3%	<0.3%
Ethanol	≤0.5%	<0.5%
Impurity A	≤0.15%	0.02%
Impurity B	≤0.3%	0.01%
Impurity C	≤0.15%	0.02%
Any Impurity	≤0.1%	0.01%
Total Impurities	≤0.5%	0.11%
Chromatographic Purity	≤1.0%	0.1%
Conclusion (Manufacturer):	This product conforms to enterprise standards	
Additional Information:	Allergen Free BSE/TSE Free Gluten-	Free 🛚 Vegan/Vegetarian
Composition:	Thiamine HCL 98.5-101.0%	
Storage Conditions: Keep in sealed container under 25°C.		
	Keep away from strong light, heat and moisture.	

Purebulk.Inc verifies that the information contained herein is true and correct to the best of our knowledge. Verified By: Candace Gibson / Nicole Rammage

(This document was produced electronically and is valid without signature.)