

## **Product Specifications**

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Substance name		Thiamine hydrochloride Vitamin B1 HCl			
Synonym name			1		
Art No.	A001503	3	Country of origin	Campany	
CAS No.	67-03-8	N OC	Country of origin	Germany	
Molecular formula	C <sub>12</sub> H <sub>18</sub> Cl <sub>2</sub>	N4US	Molecular weight	337.27	
Analytical information	<u> </u>				
, mary toda information					
Appearance		White or almost white, crystalline powder or colourless			
		crystals			
Solubility		Freely soluble in water, soluble in glycerol, slightly soluble			
		in alcohol			
Identification		Conforms			
Assay		98.5-101.0%			
Sulphated ash		≤0.1%			
Sulphates		≤300ppm			
Heavy metals		≤20ppm			
Loss on drying		≤5.0%			
pH		2.7-3.3			
Appearance of solution		Clear and not more intensely coloured than reference			
Deleted substance		solution Y <sub>7</sub> or GY <sub>7</sub>			
Related substances		≤0.4%			
Any impurity Total impurities		≤0.4% ≤1.0%			
Nutrititive values		(determined theoretically) referred to 100g			
Energy		OkJ / Okcal			
Fat		0.0g			
of which saturates		0.0g			
Carbohydrate		0.0g			
-of which sugars		0.0g			
Fibre		0.0g			
Protein		0.0g			
Sodium		0.0g			
Salt (as NaCl)		0.0g			
Salt (acc. To 1169/2011/EC)		0.0g			
Microbiology					
Total viable aerobic count		≤1000cfu/g			
Yeast & mould		≤200cfu/g			
E.coli		n.d./1g			
Salmonella		n.d./10g			
Storage		Protect from light and store cool and dry in well-closed			
		original packaging. The temperature should not exceed 25°C.			
		Stored in the original unopened packaging under			
		appropriate conditions the product is stable for at least 36			
		months from the date of production. The best before date			
		is printed on the certificate of analysis.			
Does not contain alle	rgens which		labelled according to E		
1169/2011 and its am				<b>J</b>	



The product does not contain animal ingredients. The product is not irradiated. A Koshercertificate is available. /According to Regulation (EC) No. 178/2002 the manufacturer of above mentioned product guarantees the tracability of raw materials one step backwards and of product batches one step forward. All instructions, which are necessary to take these steps, are implemented in manufacturer's quality manual and management system according to IFS and BRC. The source of active substance is of synthetic origin. Further information The product contains no animal ingredients. Risk of BSE/TSE contamination can be excluded. The product is suitable for vegetarian/vegan nutrition. The product is suitable for lactose intolerance diet. The product is suitable for people with coeliac disease and sprue. The product is in compliance with Jewish dietary laws. The product is in compliance with Islamic dietary laws. The product is not treated with ionizing radiation. The product does not contain any raw materials, ingredients or additives in nanoparticle size as per definition of Regulation (EU) No. 1169/2011. The primary packaging of the product is suitable for food. June 25th, 2018

The above identified product conforms to the standard as specified in all requirements. All data as mentioned have been copied from the original certificate received from the supplier. The above results do not relieve the customer from his obligation to carry out his own controls upon receipt of goods and cannot be regarded as a guaranty. We hereby do not assume any liability beyond the individual contract.

This certificate is an electronic copy of the certificate available in the laboratory and does not require signature

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Issued by: