

A.C.E.F. SpA
Via Umbria 8/14
29017 Fiorenzuola d'Arda PC
Italien

Certificate of Analysis

Date format	DD.MM.YYYY
Creation date	10.01.2023
Your order no.	2022 7353
Date	05.12.2022
Delivery note	81001032 000030
Date of dispatch	10.01.2023
Our reference	926875 000030
Date	06.12.2022
Client number	216959
Date of arrival	12.01.2023

Material / Product / Description
100206 / 001333-25 / Trisodium Citrate Dihydrate TSC N1560 in 25 kg bags

Shipping point
Jungbunzlauer Austria AG, Factory Pernhofen, 2064 Wulzeshofen

Batch	Quantity	Date of production	Date of expiry	Production plant, country	Country of Origin
1286701	6,000 KG	05.11.2022	11.2025	Pernhofen, AT	AT
Parameter	Unit	Specification		Value	
Characteristics		white granular crystals or a white, crystalline powder; slightly deliquescent in moist air, freely soluble in water, practically insoluble in ethanol (96%)		conforms	
Identification				conforms*	
Assay	%	99,0 - 100,5		100,0	
Water (Loss on drying)	%	11,0 - 13,0		12,3	
pH in 5% solution		7,5 - 9,0		8,7	
Readily carbonisable substances				conforms*	
Odour		typical, practically odourless		conforms	
Appearance of solution		clear and colourless		conforms*	
Acidity				conforms*	
Alkalinity				conforms*	
Chloride	mg/kg	<= 50		conforms*	
Arsenic	mg/kg	<= 1		conforms*	
Lead	mg/kg	<= 0,5		conforms*	
Mercury	mg/kg	<= 0,5		conforms*	
Oxalic acid / oxalate	mg/kg	<= 100		conforms*	
Sulphate	mg/kg	<= 100		conforms*	
Tartrate				conforms*	
Particles > 1.25 mm (mesh 14)	%	<= 5		conforms*	
Particles < 0.40 mm (mesh 45)	%	<= 20		conforms*	

We herewith confirm that this product is specified to meet the requirements of the latest edition of the European Pharmacopoeia (Ph. Eur.), the United States Pharmacopeia (USP), the Food Chemicals Codex (FCC) and of Commission Regulation (EU) No 231/2012. All analytical methods are in accordance with the latest requirements of the Ph. Eur., the USP, the FCC or are equivalent. Test methods are available on request.

*) Analysis is confirmed based on In-Process-Control or by random testing.

QUALITY CONTROL MANAGER

MSc. Carina Pleil
FSSC 22000 certified by LRQA- Reg. No. 10382348 Certificate Expiry on Aug. 27th, 2023
GMP+B1+B3 for feed certified by LRQA- Reg. No. 10373162 - Certificate Expiry on July 31st, 2023
ISO 9001:2015 certified by LRQA - Certificate No. 10370717 Certificate Expiry on July 8th, 2023
This computer generated certificate is valid without signature.