

# Ascorbic Acid



## *Coversheet for Certificate of Analysis*

Productcode : 0408050  
Lot No. : TL02011080  
Analysis No. : L2714

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CfC Number : 04296295  
Articlecode : 0408050366  
Sales Name : 25 Kg Cardboard Box  
Ascorbic Acid  
Manufacturing Date : 06-NOV-2020  
Best Use Before Date : 06-NOV-2023  
Delivery Note No. 8422094326  
Destination : Turkey  
Customer Ref. No : 2020  
Customer Article No:  
Customer Name: A.T.S. Advanced Technology  
Supplies  
Ticaret A.S.  
Okmeydanı-SISLI-ISTANBUL

Article desc. CoA  
Comment

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# CERTIFICATE OF ANALYSIS

## Ascorbic Acid

Product Code:	0408050	Manufacturing Date:	06-Nov-2020
Analysis Number:	2714	Release Date:	16-Nov-2020
Lot Number:	TL02011080	Best Use Before:	06-Nov-2023

Test	Test Method	Result	Limits/Specification
Appearance:	Visual	powder	powder
Colour:	Visual	white	white, slightly yellow
Odour:		no abnormal odor	no abnormal odor
Clarity of 5% solution in water:	Spectroscopy	clear	clear
Colour of 5% solution in water:	Visual	colorless	colorless
pH of 5% solution in water:	Potentiometry	2.4	2.2 - 2.5
Specific Rotation, 589nm, 20 °C, 10% in water:	Polarimetry	20.7 °	20.5 - 21.5 °
Loss on drying, 105 °C, 4 hours:	Gravimetric analysis	0.02 %	≤ 0.1 %
Identity:	IR spectroscopy	corresponds*	corresponds
Reduction of cupric tartrate:	Visual	corresponds*	corresponds
Sulfated Ash:	Gravimetric analysis	corresponds*	≤ 0.1 %
Heavy Metals:	Visual		
Heavy Metals as Pb colourimetric		corresponds*	≤ 10 ppm
Arsenic colourimetric		corresponds*	≤ 3 ppm
Elemental Impurities by Atomic Absorption:	AAS		
Iron		corresponds*	≤ 2 ppm
Copper		corresponds*	≤ 5 ppm
Lead		corresponds*	≤ 2 ppm
Zinc		corresponds*	≤ 25 ppm
Elemental Impurities:	AAS		
Mercury		corresponds*	≤ 1 ppm

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Lot Number:	TL02011080	Best Use Before:	06-Nov-2023

Test	Test Method	Result	Limits/Specification
Oxalic Acid:	Visual	corresponds*	≤ 0.2 %
Assay:	Titration	100.4 %	99.0 - 100.5 %
Through USP 20 (850 micron) Air Jet Sieve:	Sieve analysis	100 %	Equal to 100 %
Through USP 100 (150 micron) Air Jet Sieve:	Sieve analysis	12 %	≤ 70 %
Through USP 200 (75 micron) Air Jet Sieve:	Sieve analysis	1 %	≤ 20 %
Residual Solvents:	Gas chromatography		
Ethanol		corresponds*	≤ 120 ppm
Methanol		corresponds*	≤ 60 ppm
Related Impurities:	HPLC		
Impurity C		0.06 %	≤ 0.15 %
Impurity D		<0.01 %	≤ 0.15 %
Total other than C and D		0.0 %	≤ 0.2 %
Absence of any Unspecified Impurities >0.10%		not present	not present

\*) checked at regular intervals

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This lot has been analyzed against the substance specifications given above and released. The manufacturing and control records have been reviewed by our authorized Quality organization. The lot has been produced in conformity with Good Manufacturing Practices (GMP) applicable to the uses stated by DSM.

Statements regarding compliance of our products with applicable regulations and GMP standards are available on our customer portal under <https://webshop.dsm.com>. For compendial Compliance please refer to DSM Product Data sheet.

**Laura Hutchison, Designated Quality Assurance Manager**  
(This document has been generated and signed electronically)

DSM Nutritional Products (UK) Ltd  
Quality Assurance

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