

DL-A-TOCOPHERYL ACETATE



Coversheet for Certificate of Analysis

Productcode : 0420085
Lot No. : UT22050158
Analysis No. : L21197

CfC Number : 04893557
Articlecode : 0420085422
Sales Name : 190 kg Metal Drum DL-a-Tocopheryl Acetate
Manufacturing Date : 17-APR-2022
Best Use Before Date : 16-APR-2026
Delivery Note No. 1124072486
Destination : Argentina
Customer Ref. No : 4501649251
Customer Article No: 0420085422
Customer Name: DSM NUTRITIONAL PRODUCTS ARGENTINA S.A.
COLECTORA ESTE PANAMERICANA, RAMAL PILAR
C.U.I.T : 30-70782242-9

Article desc. CoA
Comment

CERTIFICATE OF ANALYSIS

DL-A-TOCOPHERYL ACETATE

Product Code:	0420085	Manufacturing Date:	17-Apr-2022
Analysis Number:	21197	Release Date:	30-May-2022
Lot Number:	UT22050158	Best Use Before:	16-Apr-2026

Test	Test Method	Result	Limits/Specification
Appearance:	Visual	clear viscous oil	clear viscous oil
Color:	Visual	slightly greenish-yellow	colorless, almost colorless, slightly yellow, slightly greenish-yellow
Identity (GC):	Gas chromatography	corresponds	corresponds
Optical rotation:	Polarimetry	0.00 °	-0.01 - +0.01 °
Heavy metals:	ICP-MS		
Heavy metals (total)		corresponds*	≤ 10 ppm
Lead		corresponds*	≤ 2 ppm
Arsenic		corresponds*	≤ 1 ppm
Mercury		corresponds*	≤ 0.1 ppm
Cadmium		corresponds*	≤ 0.5 ppm
Residual solvents:	Gas chromatography		
Pyridine		corresponds*	≤ 80 ppm
Toluene		corresponds*	≤ 80 ppm
Acidity:	Titration	<0.1 mL 0.10 N NaOH	≤ 1.0 mL 0.10 N NaOH
dl-α-Tocopheryl acetate and related substances:	Gas chromatography		
Impurity A		0.1 %	≤ 0.5 %
Impurity B		0.6 %	≤ 0.6 %
Impurity C (free Tocopherol)		0.1 %	≤ 0.5 %
Sum of impurities D + E		0.3 %	≤ 1.0 %
Any other impurity 1 (RRT:1.03868)		0.09 %	≤ 0.25 %
Any other impurity 2 (RRT:1.05462)		0.06 %	≤ 0.25 %

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Test	Test Method	Result	Limits/Specification
dl- α -Tocopheryl acetate and related substances:, cont.	Gas chromatography		
Any other impurity 3 (RRT:1.10744)		0.07 %	≤ 0.25 %
Any other impurity 4 (RRT:1.122985)		0.07 %	≤ 0.25 %
Any other impurity 5 (RRT:1.157325)		0.09 %	≤ 0.25 %
Total impurities		1.6 %	≤ 2.5 %
Assay (Ph.Eur.)		98.3 %	96.5 - 102.0 %
Assay (USP/FCC)		98.2 %	96.0 - 102.0 %

*) 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.

Sandra Schoebel, Quality Assurance Manager

(This document has been generated and signed electronically)

DSM Nutritional Products Ltd
Quality Assurance

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