

Coversheet for Certificate of Analysis

Productcode : 5015787
Lot No. : 0723010036
Analysis No. : 03F43671

CfC Number : 05362444
Articlecode : 5015787021
Sales Name : 0,200 KG SAMPLE PARSOL EHS
Manufacturing Date : 12-APR-2023
Best Use Before Date : 11-APR-2026
Delivery Note No. 1124140359
Destination : Argentina
Customer Ref. No : 4501911608
Customer Article No: 5015787021
Customer Name: DSM NUTRITIONAL PRODUCTS ARGENTINA
S.A.
C.U.I.T : 30-70782242-9
COLECTORA ESTE PANAMERICANA

Article desc. CoA
Comment

PARSOL® EHS

CERTIFICATE OF ANALYSIS

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Test	Result	Limits / Specifications	Dimension / Units
Appearance visual	liquid	liquid	
Colour visual	colorless to pale yellow	colorless to pale yellow	
Assay GC (USP 621)	99.1	95.0 to 105.0	%
Identity IR (USP 197F)	corresponds	corresponds	
Identity GC (USP 621)	corresponds	corresponds	
Specific gravity (25°C) Pycnometer (USP 841)	1.014	1.011 to 1.016	
Refractive index (20°C) Refractometer (USP 831)	1.501	1.500 to 1.503	
Acidity (0.1N NaOH) Titration (USP)	0.0	max. 0.2	mL/mL
UV specific extinction (E 1%, 1 cm at 305 nm in ethanol) Spectrophotometry	181	168 to 182	
Chromatographic purity Each GC (USP 621)	0.1	max. 0.5	%
Total GC (USP 621)	0.3	max. 2.0	%
Methanol GC (USP 467)	corresponds*	max. 50	ppm
Heavy metals Lead ICP-MS (USP 232/233)	corresponds*	max. 1	ppm
Cadmium ICP-MS (USP 232/233)	corresponds*	max. 0.5	ppm
Mercury ICP-MS (USP 232/233)	corresponds*	max. 0.1	ppm
Cobalt ICP-MS (USP 232/233)	corresponds*	max. 1	ppm
Chrome ICP-MS (USP 232/233)	corresponds*	max. 1	ppm
Nickel ICP-MS (USP 232/233)	corresponds*	max. 1	ppm
Antimony ICP-MS (USP 232/233)	corresponds*	max. 1	ppm

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Test	Result	Limits / Specifications	Dimension / Units
Arsenic ICP-MS (USP 232/233)	corresponds*	max. 1	ppm
Microbiological purity Total aerobic plate count USP/EP	corresponds*	max. 100	CFU/g
Total yeast and moulds count USP/EP	corresponds*	max. 100	CFU/g
Pseudomonas aeruginosa USP/EP	corresponds*	negative in 1g	
Staphylococcus aureus USP/EP	corresponds*	negative in 1g	
Escherichia coli USP/EP	corresponds*	negative in 1g	
Candida albicans USP/EP	corresponds*	negative in 1g	

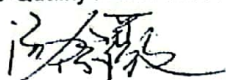
*) checked at regular intervals

This lot has been analyzed and released. The manufacturing and control records have been reviewed by our authorized Quality organization. This lot meets substance specifications as given here above and has been produced in conformity with applicable Good Manufacturing Practices (GMP).

The product meets all requirements of the following valid compendia when tested accordingly:

USP

DSM Nutritional Products Ltd
 The Quality Assurance Manager



Tang Yu-Wei