CERTIFICATE OF ANALYSIS

Standard product specification — applicable to all consignments of this product and grade supplied by Scapex Exports Pvt. Ltd., manufacturer and supplier of quality chemicals.

Product Name	DATEM
C.A.S. Number	100085-39-0
Molecular Formula	—
Molecular Weight	—
Grade / Standard	≥98% food grade
Physical Form	Light amber liquid/powder
Product Category	Food Ingredients & Additives
Country of Origin	India

ANALYTICAL RESULTS

S. No.	Test Parameter	Specification	Result	Method
1	Description	Light amber liquid/powder	**Complies**	Visual
2	Identification	Conforms to the structure of the substance	**Complies**	FTIR / Chemical test
3	Assay	Not less than 98.0 % w/w	**98.53**	Titrimetry / Instrumental
4	Loss on Drying	Not more than 1.0 % w/w	**0.45**	Gravimetry (FCC)
5	Lead (Pb)	Not more than 2.0 ppm	**Less than 0.5 ppm**	ICP-MS / AOAC
6	Arsenic (As)	Not more than 1.0 ppm	**Less than 0.2 ppm**	ICP-MS / AOAC
7	Mercury (Hg)	Not more than 0.1 ppm	**Less than 0.02 ppm**	ICP-MS / AOAC
8	Cadmium (Cd)	Not more than 0.5 ppm	**Less than 0.05 ppm**	ICP-MS / AOAC
9	Sulphated Ash	Not more than 0.5 % w/w	**0.036**	Gravimetry (FCC)
10	Heavy Metals (as Pb)	Not more than 10 ppm	**Less than 5 ppm**	ICP-OES
11	Total Aerobic Microbial Count	Not more than 1000 cfu/g	**134 cfu/g**	IP / USP <61>
12	Total Yeast & Mould Count	Not more than 100 cfu/g	**18 cfu/g**	IP / USP <61>
13	Escherichia coli	Absent in 1 g	**Absent**	IP / USP <62>
14	Salmonella species	Absent in 10 g	**Absent**	IP / USP <62>
15	Structure	Conforms to reference structure	**Complies**	FTIR / NMR

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Remarks

Material supplied against this specification is analysed on every production lot and **conforms** to the limits stated above in all tested parameters. Results shown are the typical values obtained for this grade.

Retained samples are held against every export consignment. Store in tightly closed original packing, in a cool, dry, well-ventilated place away from incompatible materials and direct sunlight.

Checked and Approved by

Prem Panchal
Quality Assurance
Scapex Exports Pvt. Ltd.

This document sets out the standard specification for the product named above and applies to all consignments of this grade. It is issued by Scapex Exports Pvt. Ltd. as manufacturer and supplier. Refer to the Material Safety Data Sheet (MSDS) before handling.

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