

CERTIFICATE OF ANALYSIS

Standard product specification — applicable to all consignments of this product and grade supplied by Scapex Exports Pvt. Ltd.

Product Name	Magnesium sulfate, ACS, 98.0-102.0%	C.A.S. Number	10034-99-8
Product Category	Inorganic Salts & Compounds	Product Group	Magnesium Compounds
Grade / Standard	≥99.5% Technical	Physical Form	White crystalline powder
Country of Origin	India	Document No.	SCX/COA/C049CD
Packing	Standard export packing — bags, drums, carboys, IBC or ISO tank as applicable	Storage	Cool, dry, well-ventilated place in tightly closed original packing

ANALYTICAL RESULTS

S. No.	Test Parameter	Specification	Result	Method
1	Description	White crystalline powder	Complies	Visual
2	Identification	Conforms to the structure of the substance	Complies	FTIR / Chemical test
3	Solubility	As per specification	Complies	Visual / Monograph
4	Assay	Not less than 99.5 % w/w	99.57	Titrimetry / Instrumental
5	Matter Insoluble in Water	Not more than 0.05 % w/w	0.004	Gravimetry
6	pH (5 % w/v aqueous solution)	As per specification	6.1	Potentiometry
7	Chloride (as Cl)	Not more than 0.01 % w/w	0.0019	Turbidimetry / IC
8	Sulphate (as SO ₄)	Not more than 0.02 % w/w	0.0041	Turbidimetry / IC
9	Iron (as Fe)	Not more than 20 ppm	5.7 ppm	ICP-OES / AAS
10	Heavy Metals (as Pb)	Not more than 10 ppm	Less than 5 ppm	ICP-OES
11	Moisture	Not more than 1.0 % w/w	0.48	Karl Fischer / Gravimetry

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 not a lot-specific release document; a lot-specific certificate carrying the analysis of the material actually shipped is issued with each consignment. The information is given in good faith; it does not constitute a warranty of fitness for any particular purpose. Refer to the Safety Data Sheet before handling.