

CERTIFICATE OF ANALYSIS
QUALITY CONTROL LABORATORY
 of SDFCL Mfg. Unit No. 1
 E27/ E28, MIDC, Tarapur Industrial Area, B-Road, Boisar-401506, Maharashtra

LAB. ID	: RM/1920/2001	CERTIFICATE NO.	: 030320/14
NAME OF PRODUCT	: MAGNESIUM SULPHATE HEPTAHYDRATE AR, ACS : Meets Analytical Specification of IP, BP, USP, Ph. Eur		
BATCH NO	: C20A/1420/0303/31	DATE OF ANALYSIS	: 05.03.2020
PRODUCT CODE	: 20151	SPECIFICATION REF.	: 20151SP03
MFG. DATE	: MARCH-2020	RETEST DATE	: FEBRUARY-2025

CASR NO. : (10034-99-8)

TEST	SPECIFICATIONS	RESULTS	TEST METHOD REF.
	$MgSO_4 \cdot 7H_2O$	M.W. : 246.47	
Description	Colourless crystals or white crystalline powder.	Complies	IP-2014
Solubility	10% solution in water is clear and colourless.	Complies	IP-2014
Identification	Passes test.	Complies	BP-2017
Assay (Complexometric; Cal.on dried substance)	99.5 - 103.0%	100.15%	IP-2014
pH (5% soln. in water)	5.0 – 8.2	6.78	SDFCL-TAR-STP-20151
Loss on drying (at 110 for 1hr, then ignite at 400°C)	48 – 52%	50%	BP-2017

MAXIMUM LIMIT OF IMPURITIES

Insoluble matter	0.003%	Complies [< 0.003%]	Analar 8 th Edition
Acidity (H ₂ SO ₄)	0.0025%	Complies [< 0.0025%]	IP-2014
Alkalinity (MgO)	0.004%	Complies [< 0.004%]	IP-2014
Ammonium (NH ₄)	0.002%	Complies [< 0.002%]	ACS 10 th Edition
Chloride (Cl)	0.0005%	Complies [< 0.0005%]	ACS 10 th Edition
Nitrate (NO ₃)	0.001%	Complies [< 0.001%]	ACS 10 th Edition
Phosphate (PO ₄)	0.001%	Complies [< 0.001%]	Analar 8 th Edition
Arsenic (As)	0.00004%	Complies [< 0.00004%]	BP-2017

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Calcium (Ca)	0.005%	Complies [< 0.005%]	Analar 8 th Edition
Copper (Cu)	0.0002%	Complies [< 0.0002%]	Analar 8 th Edition
Iron (Fe)	0.0005%	Complies [< 0.0005%]	Analar 8 th Edition
Heavy metals (as Pb)	0.001%	Complies [< 0.001%]	ACS 10 th Edition
Manganese (Mn)	0.0005%	Complies [< 0.0005%]	Analar 8 th Edition
Potassium	0.005%	Complies [< 0.005%]	SDFCL-TAR-LTP-008
Selenium	0.003%	Complies [< 0.003%]	FCC 8 th Edition
Sodium	0.005%	Complies [< 0.005%]	SDFCL-TAR-LTP-008
Strontium	0.005%	Complies [< 0.005%]	Analar 8 th Edition
Zinc (Zn)	0.0005%	Complies [< 0.0005%]	Analar 8 th Edition
Organic volatile impurities	Meets the requirement.	Complies	USP 40-2017

THE ABOVE BATCH MATERIAL COMPLIES WITH THE PRESCRIBED QUALITY OF THE STANDARD AS STATED ABOVE.

Measured values given in this Certificate of Analysis are the results determined at the time of Analysis.

The above data do not relieve the user from analysing the product upon receipt. Any legally binding assurance regarding the suitability of the product for any particular purpose or use can not be derived thereof.

The results relate only to the sample tested.

This certificate shall not be reproduced except in full, without written consent of the Lab. management.

This product is manufactured at our manufacturing unit no. 1 (Boisar).

For S D FINE-CHEM LIMITED

Sampling SOP No. : SDFCL-TAR-SWP-GEN-007
Sampling Plan : A (Sq. root of N+1)
Spl. Ref. (if any) :-

(Authorised Signatory)

..... END OF REPORT.....

(This is a computer printed report, valid without signature)