

**CERTIFICATE OF ANALYSIS**
**QUALITY CONTROL LABORATORY**

of SDFCL Mfg. Unit No. 1

E27/ E28, MIDC, Tarapur Industrial Area, B-Road, Boisar-401506, Maharashtra

<b>LAB. ID</b>	: RM/1718/1986	<b>CERTIFICATE NO.</b>	: 130218/17
<b>NAME OF PRODUCT</b>	: <b>MAGNESIUM SULPHATE HEPTAHYDRATE AR, ACS, Meets Analytical</b>		
	: <b>Specification of IP, BP, USP, PH. Eur</b>		
<b>BATCH NO</b>	: I222/1718/1302/31	<b>DATE OF ANALYSIS</b>	: 10.09.2022
<b>PRODUCT CODE</b>	: 20151	<b>SPECIFICATION REF</b>	: 20151SP03
<b>MFG. DATE</b>	: SEPTEMBER-2022	<b>RETEST DATE</b>	: AUGUST-2027

CASR NO : (10034-99-8)

 $MgSO_4 \cdot 7H_2O$ 

M.W. : 246.47

TEST	SPECIFICATIONS	RESULTS	TEST METHOD REF.
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%	100.13%	IP-2014
pH (5% soln. in water)	5.0 – 8.2	5.12	SDFCL-TAR-STP-20151
Loss on drying(at 110 for 1hr, then ignite at 400°C)	48 – 52%	50.67%	BP-2017
<b>MAXIMUM LIMIT OF IMPURITIES</b>			
Insoluble matter	0.003%	Complies[<0.003%]	Analar 8 <sup>th</sup> Edition
Acidity (H <sub>2</sub> SO <sub>4</sub> )	0.0025%	Complies <0.0025%	IP-2014
Alkalinity (MgO)	0.004%	Complies[<0.004%]	IP-2014
Ammonium (NH <sub>4</sub> )	0.002%	Complies[<0.002%]	ACS 10 <sup>th</sup> Edition
Chloride (Cl)	0.0005%	Complies[<0.0005%]	ACS 10 <sup>th</sup> Edition
Nitrate (NO <sub>3</sub> )	0.001%	Complies[<0.001%]	ACS 10 <sup>th</sup> Edition
Phosphate (PO <sub>4</sub> )	0.001%	Complies[<0.001%]	Analar 8 <sup>th</sup> Edition
Arsenic (As)	0.00004%	Complies[<0.00004%]	BP-2017

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Calcium (Ca)	0.005%	Complies[<0.005%]	Analar 8 <sup>th</sup> Edition
Copper (Cu)	0.0002%	Complies[<0.0002%]	Analar 8 <sup>th</sup> Edition
Iron (Fe)	0.0005%	Complies[<0.0001%]	Analar 8 <sup>th</sup> Edition
Heavy metals (as Pb)	0.001%	Complies[<0.001%]	ACS 10 <sup>th</sup> Edition
Manganese (Mn)	0.0005%	Complies[<0.0005%]	Analar 8 <sup>th</sup> Edition
Potassium	0.005%	Complies[0.001%]	SDFCL-TAR-LTP-008
Selenium	0.003%	Complies[<0.003%]	FCC 8 <sup>th</sup> Edition
Sodium	0.005%	Complies[<0.001%]	SDFCL-TAR-LTP-008
Strontium	0.005%	Complies[<0.005%]	Analar 8 <sup>th</sup> Edition
Zinc (Zn)	0.0005%	Complies[<0.0005%]	Analar 8 <sup>th</sup> 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)**

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