

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/2021/0701 | CERTIFICATE NO. | : 220920/10 |
| NAME OF PRODUCT | : MAGNESIUM SULPHATE HEPTAHYDRATE AR, ACS | | |
| | : Meets Analytical Specification of IP, BP, USP, Ph. Eur | | |
| BATCH NO | : J20A/1020/2209/31 | DATE OF ANALYSIS | : 16.10.2020 |
| PRODUCT CODE | : 20151 | SPECIFICATION REF. | : 20151SP03 |
| MFG. DATE | : OCTOBER-2020 | RETEST DATE | : SEPTEMBER-2025 |

CASR NO. : (10034-99-8)

| | MgSO ₄ .7H ₂ O | 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% | 100.05% | IP-2014 |
| pH (5% soln. in water) | 5.0 – 8.2 | 5.51 | SDFCL-TAR-STP-20151 |
| Loss on drying (at 110 for 1hr, then ignite at 400°C) | 48 – 52% | 49.9% | 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% | Nil | 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).

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

For S D FINE-CHEM LIMITED

(Authorised Signatory)

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

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