

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/2021/0779	CERTIFICATE NO.	: 051020/15
NAME OF PRODUCT	: POTASSIUM NITRATE AR	DATE OF ANALYSIS	: 05.10.20
BATCH NO	: J20A/1520/0510/31	SPECIFICATION REF.	: 20214SP03
PRODUCT CODE	: 20214	RETEST DATE	: SEPTEMBER-2025
MFG. DATE	: OCTOBER-2020		

CASR NO : (7757-79-1)

 KNO_3

M.W. : 101.1

TEST	SPECIFICATIONS	RESULTS	TEST METHOD REF.
Description	Colourless / white crystals / crystalline powder.	Complies	BP-2008
Solubility	10% solution in water is clear and colourless.	Complies	BP-2008
Identification	Passes test.	Complies	BP-2008
Minimum Assay(Ion-exchange)	99.50%	99.75%	BP-2008
pH of 5% soln.	5.0 – 8.0	7.906	ACS 10 th Edition

MAXIMUM LIMITS OF IMPURITIES

Loss on drying (at 100°C)	0.5%	0.1%	BP-2008
Insoluble matter	0.003%	Complies[<0.003%]	ACS 10 th Edition
Acidity (HNO ₃)	0.003%	Nil.	In-house
Alkalinity	0.5 ml N/1%	Complies [< 0.5 ml N/1%]	In-house
Chloride (Cl)	0.001%	Complies[<0.001%]	ACS 10 th Edition
Phosphate (PO ₄)	0.0005%	Complies[<0.0005%]	ACS 10 th Edition
Sulphate (SO ₄)	0.003%	Complies[<0.003%]	ACS 10 th Edition
Nitrite (NO ₂)	0.0001%	Complies[<0.0001%]	Analar 8 th Edition
Ammonium (NH ₄)	0.001%	Complies[<0.001%]	Analar 6 th Edition
Arsenic (As)	0.0001%	Complies[<0.0001%]	Analar 6 th Edition
Calcium (Ca)	0.0015%	Complies[<0.0015%]	Analar 8 th Edition
Copper (Cu)	0.0001%	Complies[<0.0001%]	Analar 8 th Edition
Iron (Fe)	0.0005%	Complies[<0.0005%]	Analar 6 th Edition
Iodate (IO ₃)	0.00005%	Complies[<0.00005%]	Analar 8 th Edition
Lead (Pb)	0.0001%	Complies[<0.0001%]	ACS 10 th Edition
Magnesium (Mg)	0.0015%	Complies[<0.0015%]	Analar 8 th Edition
Sodium (Na)	0.1%	Complies[<0.1%]	Analar

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)