

## CERTIFICATE OF ANALYSIS

Product Name	: POTASSIUM NITRATE	Release Date	: 1-OCT-2025
Lot No.	: PEL/TCG/241356/25	Mol. Weight	: 101.11
Mol. Formula	: KNO <sub>3</sub>	CAS No.	: 7757-79-1
Code No.	: PEL100	Exp. Date	: Apr-2030
Mfg. Date	: May-2025		

Sr.	Tests	Specifications	Results
1	Appearance	White crystalline powder	White crystalline powder
2	Assay (Titration after Ion exchange)	99 - 100.5%	99.2%
3	Identity (acc. to pharmacopoeias)	Passes test	Passes test
4	Appearance of solution	Passes test	Passes test
5	Reducing substance	Passes test	Passes test
6	pH (5% solution in water; 20°C)	4.2 - 8.2	5.86
7	Acidity or alkalinity	Passes test	Passes test
8	Chloride (Cl)	Max 0.001%	0.0009%
9	Chlorate and perchlorate (as Cl)	Passes test	Passes test
10	Sulphate (SO <sub>4</sub> )	Max 0.003%	0.0019%
11	Phosphate (PO <sub>4</sub> )	Max 0.0005%	0.0003%
12	Lead (Pb)	Max 0.0005%	Not detected
13	Arsenic (As)	Max 0.0003%	<0.0003%
14	Iron (Fe)	Max 0.0003%	Not detected
15	Calcium (Ca)	Max 0.001%	Not detected
16	Sodium (Na)	Max 0.02%	0.001%
17	Ammonium (NH <sub>4</sub> )	Max 0.001%	0.0008%
18	Iodate (IO <sub>3</sub> )	Max 0.0005%	<0.0005%
19	Nitrite (NO <sub>2</sub> )	Max 0.0005%	<0.0005%
20	Loss on drying (at 105°C)	Max 0.5%	0.22%

**CONCLUSION** - This above product complies as per the specifications of PELICAN (TRUST LIES HERE)