

Certificate of Analysis

Product	Hydrochloric Acid 37%	Batch No.	: 21 05 0194
Grade	AR.	Manufacturing date	: 31/05/2021
Code No.	AR1107	Best before	: 05/2025

Items	Descriptions	Specifications	Test Results
1	Assay (by acidimetry)	37% min.	37.4% (w/w)
2	Appearance	Passes test	Passes test
3	Color (APHA)	10 max.	< 10
4	Residue after Ignition	5.0 ppm max.	< 5.0 ppm
5	Ammonium (NH ₄)	3.0 ppm max.	< 3.0 ppm
6	Free Chlorine (Cl)	1.0 ppm max.	< 1.0 ppm
7	Bromide (Br)	1.0 ppm max.	< 1.0 ppm
8	Sulfate (SO ₄)	1.0 ppm max.	< 1.0 ppm
9	Sulfite (SO ₃)	1.0 ppm max.	< 1.0 ppm
10	Heavy metals (as Pb)	1.0 ppm max.	< 1.0 ppm
11	Arsenic (As)	0.01 ppm max.	< 0.01 ppm
12	Cadmium (Cd)	0.01 ppm max.	< 0.01 ppm
13	Iron (Fe)	0.2 ppm max.	< 0.2 ppm
14	Lead (Pb)	0.01 ppm max.	< 0.01 ppm
15	Zinc (Zn)	0.02 ppm max.	< 0.02 ppm

This is to certify the above batch has been tested and complies with this specification.

Ladaphan.

Chemist

Achan.

Technical Manager