

Certificate of Analysis

Product	Hydrochloric Acid 37%	Batch No.	: 21 05 0320
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.	37.7% (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