

Certificate of Analysis

Product	Hydrochloric Acid 5%	Batch No.	: 21 05 0428
Grade	AR.	Manufacturing date	: 31/05/2021
Code No.	AR1102	Best before	: 05/2023

Items	Descriptions	Specifications		Test Results	
1	Assay (by acidimetry)	5.0%	min.	5.6% (w/w)	
2	Appearance	Passes test		Passes test	
3	Color (APHA)	10	max.	< 10	
4	Residue after Ignition	3.0	ppm max.	< 3.0	ppm
5	Ammonium (NH ₄)	0.5	ppm max.	< 0.5	ppm
6	Free Chlorine (Cl)	0.5	ppm max.	< 0.5	ppm
7	Bromide (Br)	0.5	ppm max.	< 0.5	ppm
8	Sulfate (SO ₄)	0.5	ppm max.	< 0.5	ppm
9	Sulfite (SO ₃)	0.5	ppm max.	< 0.5	ppm
10	Heavy metals (as Pb)	0.1	ppm max.	< 0.1	ppm
11	Arsenic (As)	0.01	ppm max.	< 0.01	ppm
12	Cadmium (Cd)	0.005	ppm max.	< 0.005	ppm
13	Iron (Fe)	0.1	ppm max.	< 0.1	ppm
14	Lead (Pb)	0.005	ppm max.	< 0.005	ppm
15	Zinc (Zn)	0.01	ppm max.	< 0.01	ppm

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

Ladaphan.

Chemist

Achan.

Technical Manager