

## Certificate of Analysis

<b>Product</b>	Hydrochloric Acid 32%	<b>Batch No.</b>	: 21 06 0079
<b>Grade</b>	RCI Premium	<b>Manufacturing date</b>	: 11/06/2021
<b>Code No.</b>	RP1104	<b>Best before</b>	: 06/2023

Items	Descriptions	Specifications	Test Results
1	Assay (by acidimetry)	32% min.	32.6% (w/w)
2	Appearance of solution	Passes test	Passes test
3	Color (APHA)	10 max.	< 10
4	Residue after ignition	0.0003% max.	< 0.0003%
5	Extractable Organic Substance	0.0005% max.	< 0.0005%
6	Free Chlorine (as Cl)	0.0001% max.	< 0.0001%
7	Ammonium (NH <sub>4</sub> )	0.0001% max.	< 0.0001%
8	Bromide (Br)	0.001% max.	< 0.001%
9	Phosphate (PO <sub>4</sub> )	0.00005% max.	< 0.00005%
10	Sulfate (SO <sub>4</sub> )	0.00005% max.	< 0.00005%
11	Sulfite (SO <sub>3</sub> )	0.00008% max.	< 0.00008%
12	Aluminium (Al)	0.00001% max.	< 0.00001%
13	Heavy metals (as Pb)	0.00001% max.	< 0.00001%
14	Arsenic and Antimony (as As)	0.0000005% max.	< 0.0000005%
15	Barium (Ba)	0.00002% max.	< 0.00002%
16	Boron (B)	0.000005% max.	< 0.000005%
17	Cadmium (Cd)	0.000001% max.	< 0.000001%
18	Calcium (Ca)	0.00003% max.	< 0.00003%
19	Chromium (Cr)	0.00001% max.	< 0.00001%
20	Cobalt (Co)	0.000001% max.	< 0.000001%
21	Copper (Cu)	0.000002% max.	< 0.000002%
22	Gold (Au)	0.00001% max.	< 0.00001%
23	Iron (Fe)	0.00001% max.	< 0.00001%
24	Lead (Pb)	0.000001% max.	< 0.000001%
25	Magnesium (Mg)	0.00003% max.	< 0.00003%
26	Manganese (Mn)	0.000002% max.	< 0.000002%
27	Mercury (Hg)	0.0000005% max.	< 0.0000005%
28	Molybdenum (Mo)	0.000002% max.	< 0.000002%
29	Nickel (Ni)	0.000005% max.	< 0.000005%
30	Potassium (K)	0.00003% max.	< 0.00003%
31	Sodium (Na)	0.00003% max.	< 0.00003%
32	Strontium (Sr)	0.000002% max.	< 0.000002%
33	Tin (Sn)	0.00003% max.	< 0.00003%
34	Titanium (Ti)	0.00001% max.	< 0.00001%
35	Zinc (Zn)	0.000002% max.	< 0.000002%

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

Ladaphan

Chemist

Achan

Technical Manager