

### Certificate of Analysis

**Product: Hydrochloric Acid 37% Solution**

**Item Number: HCLA37**

**Grade: ACS Grade**

**Lot Number: 220809**

**Manufacture Date: 08/11/2022**

**Expiration Date: 08/10/2024**

**Country of Origin: United States**

Tested Property	Specification	Analysis
Appearance	Colorless and free from suspended matter or sediment	Passes
Assay	36.5-38.0%	36.7
Color (APHA)	10	5
Residue after Ignition	5 ppm	1 ppm
Bromide (Br)	0.005%	<0.005%
Sulfate (SO <sub>4</sub> )	1 ppm	0.2 ppm
Sulfite (SO <sub>3</sub> )	1 ppm	0.2 ppm
Extractable Organic Substances	5 ppm	< 5 ppm
Free Chlorine (Cl)	1 ppm	<1 ppm
Ammonium (NH <sub>4</sub> )	3 ppm	1 ppm
Arsenic (As)	0.01 ppm	0.0001 ppm
Heavy Metals (as Pb)	1 ppm	0.2 ppm
Iron (Fe)	0.2 ppm	0.05 ppm

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