

### Certificate of Analysis

**Product: Hydrochloric Acid 37% Solution**

**Item Number: HCLS37**

**Grade: Semiconductor**

**Lot Number: 5001139/1.1**

**Manufacture Date: 12/23/2024**

**Expiration Date: 12/22/2027**

**Country of Origin: United States**

Tested Property	Specification	Analysis
Appearance	Colorless and free from sus. matter/sediment	Pass
Assay	36.5 - 38%	37.49
Color (APHA)	Max 10	5
Residue after Ignition	Max 5 ppm	1
Bromide (Br)	Max 0.005%	<0.005
Sulfate (SO4)	Max 1 ppm	0.2
Sulfite (SO3)	Max 1 ppm	0.2
Extractable Organic Substances	Max 5 ppm	<5
Free Chlorine (Cl)	Max 1 ppm	<1
Ammonium (NH4)	Max 3 ppm	1
Arsenic (As)	Max 0.01 ppm	0.0001
Heavy Metals (as Pb)	Max 1 ppm	0.2
Iron (Fe)	Max 0.2 ppm	0.05

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