

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: [www.sigmaaldrich.com](http://www.sigmaaldrich.com)Email USA: [techserv@sial.com](mailto:techserv@sial.com)Outside USA: [eurtechserv@sial.com](mailto:eurtechserv@sial.com)

## Certificate of Analysis

Product Name:

Gold(III) chloride - ≥99.99% trace metals basis

**Product Number:** 379948  
**Batch Number:** MKBT0536V  
**Brand:** ALDRICH  
**CAS Number:** 13453-07-1  
**MDL Number:** MFCD00014172  
**Formula:** AuCl<sub>3</sub>  
**Formula Weight:** 303.33 g/mol  
**Quality Release Date:** 13 OCT 2014



Test	Specification	Result
Appearance (Color) Brown or Red-Brown to Red	Conforms to Requirements	Brown
Appearance (Form) Powder, Crystals, Crystalline Powder and/or Chunks	Conforms to Requirements	Powder
X-Ray Diffraction	Conforms to Structure	Conforms
Gravimetric Analysis % Au After Reduction With Sulfite	63.0 - 66.9 %	63.3 %
Purity > = 99.99% Based On Trace Metals Analysis	Conforms	Conforms
Trace Metal Analysis	≤ 100.0 ppm	35.4 ppm
Silver (Ag)		10.2 ppm
Aluminum (Al)		1.2 ppm
Barium (Ba)		0.1 ppm
Calcium (Ca)		2.1 ppm
Cadmium (Cd)		0.8 ppm
Iron (Fe)		15.3 ppm
Magnesium (Mg)		0.2 ppm
Manganese (Mn)		0.1 ppm
Sodium (Na)		0.7 ppm
Palladium (Pd)		2.0 ppm
Platinum (Pt)		2.1 ppm
Zinc (Zn)		0.5 ppm

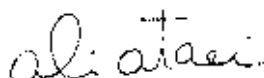
Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at [Sigma-Aldrich.com](http://Sigma-Aldrich.com). For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: [www.sigmaldrich.com](http://www.sigmaldrich.com)Email USA: [techserv@sial.com](mailto:techserv@sial.com)Outside USA: [eurtechserv@sial.com](mailto:eurtechserv@sial.com)

## Certificate of Analysis

**Product Number:** 379948  
**Batch Number:** MKBT0536V



Ali Ataei, Manager  
Quality Control  
Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.