

Certificate of Analysis

SIGMA-ALDRICH®

Product Name Lithium hydroxide monohydrate,
99.995% trace metals basis
Product Number 450197
Product Brand ALDRICH
CAS Number [1310-66-3](#)
Molecular Formula LiOH · H₂O
Molecular Weight 41.96

TEST	SPECIFICATION	LOT 09319AD RESULTS
APPEARANCE	WHITE POWDER, CRYSTALS, CRYSTALLINE POWDER	WHITE POWDER
TITRATION	98.5%-101.5% (WITH HCL)	99.8% (WITH HCL)
TRACE ANALYSIS, ICP	60 PPM (MAXIMUM) TRACE METALLIC IMPURITIES	ZN 4.4 PPM; CA 2.8 PPM; FE 0.9 PPM
ICP ASSAY	CONFIRMS LITHIUM COMPONENT	CONFIRMS LITHIUM COMPONENT
ATOMIC ABSORPTION	60 PPM (MAXIMUM) TRACE METALLIC IMPURITIES	NA 4.66 PPM; K 1.47 PPM; CS 1.23 PPM; RB 0.12 PPM
PURITY	PURITY BASED ON TRACE METAL ANALYSIS BY ICP	>99.995% BASED ON TRACE METAL ANALYSIS
QUALITY CONTROL		FEBRUARY 2005



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