

Certificate of Analysis

Mercury Calibration Standard

Agilent Part Number: 8500-6941

Lot Number: 9-102HGY2A

Analyte	CAS#	Labeled Conc.	Measured Conc.	SRM	Start Mat'l Formula	Start Mat'l Purity
Hg	7439-97-8	10.0 µg/mL	10.0 µg/mL	3133*	Hg	99.99+

* - Indicates NIST SRM

† - Indicates CRM (when NIST SRM is not available)

Purity grades:

Starting Materials: Shown above

Matrix:

5% HNO₃: HNO₃ (CAS No. 7697-37-2) high purity grade

Traceability:

This standard has been produced gravimetrically and volumetrically using ISO 9001 quality procedures. Agilent ICP / ICP-MS Spectrometer was used to determine the concentration of the main elements via NIST SRMs shown above, as well as the impurities.

Trace Metallic Impurities in the Actual Solution, in µg/L, via Agilent ICP-MS Analysis, results are accurate to ±10%:

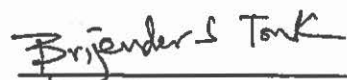
Element	Conc.	Element	Conc.	Element	Conc.	Element	Conc.	Element	Conc.	Element	Conc.
Ag	<0.06	Cr	<1	Ho	<0.01	Nb	<0.2	Ru	<0.2	Th	<0.01
Al	0.06	Cs	<0.01	In	<0.02	Nd	<0.02	Sb	<0.07	Tl	<0.3
As	<2	Cu	<0.3	Ir	<0.1	Ni	<0.4	Sc	<0.3	Ti	<0.2
Au	<10	Dy	<0.04	K	<0.6	P	<100	Se	<3	Tm	<0.01
B	<0.3	Er	<0.03	La	<0.1	Pb	<0.03	Si	<100	U	<0.01
Ba	<0.03	Eu	<0.02	Li	<0.04	Pd	<10	Sm	<0.01	V	<1
Be	<0.3	Fe	<1	Lu	<0.02	Pr	<0.01	Sn	<0.4	W	<0.3
Bi	<0.01	Ga	<0.06	Mg	<0.2	Pt	<0.1	Sr	<0.04	Y	<0.06
Ca	4	Gd	<0.06	Mn	<0.6	Rb	<0.1	Ta	<2	Yb	<0.01
Cd	<0.1	Ge	<1	Mo	<0.2	Ra	<0.08	Tb	<0.02	Zn	<0.1
Ce	<0.01	Hf	<0.03	Na	<0.07	Rh	<0.03	Te	<0.2	Zr	<0.07
Co	<0.1										

Balances are calibrated regularly with weight sets traceable to NIST.

Agilent reference standards are guaranteed stable and accurate to ±1% of measured analyte concentration. For these solutions we use the highest purity acids applicable, 18 megohm double deionized water and acid-leached, triple rinsed bottles. All glassware used is class A. This standard was manufactured following the guidelines set forth under ISO 17025 and ISO Guide 34 regulations.

Date of release: February 15, 2017

Date of expiration: August 31, 2018


QC Coordinator