

# Certificate of Analysis

## Multi Element Calibration Standard 2A - HG

**Agilent Part Number: 8500-6940-HG**
**Lot Number: 8-123HGY2**

Analyte	CAS#	Labeled Conc.	Measured Conc.	SRM	Start Mat'l Formula	Start Mat'l Purity
Hg	7439-97-6	10.0 µg/mL	9.99 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% HNO<sub>3</sub>: HNO<sub>3</sub> (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	<0.5	Cr	<0.3	Ho	<0.06	Nb	<0.5	Ru	<2	Th	<0.09
Al	2	Cs	<0.1	In	0.02	Nd	<0.4	Sb	<0.3	Ti	<0.2
As	<1	Cu	<0.07	Ir	<0.1	Ni	<0.7	Sc	<0.2	Tl	<0.04
Au	<10	Dy	<0.6	K	<3	P	<50	Se	<5	Tm	<0.07
B	<0.4	Er	<0.04	La	<0.1	Pb	<0.2	Si	<30	U	<0.1
Ba	<0.08	Eu	<0.05	Li	<0.3	Pd	<10	Sm	<0.1	V	<0.5
Be	<0.6	Fe	<2	Lu	<0.09	Pr	<0.07	Sn	<0.1	W	<0.4
Bi	<0.08	Ga	<0.4	Mg	<0.2	Pt	<0.2	Sr	<0.2	Y	<0.3
Ca	<10	Gd	<0.1	Mn	<0.5	Rb	<0.2	Ta	<0.06	Yb	<0.2
Cd	<0.3	Ge	<0.9	Mo	<0.9	Re	<0.1	Tb	<0.1	Zn	<0.9
Ce	<0.07	Hf	<0.3	Na	<0.9	Rh	<0.3	Te	<0.4	Zr	<0.3
Co	<0.05										

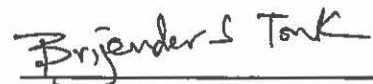
Balances are calibrated regularly with weight sets traceable to NIST.

Density: 1.024 g/mL @ 20°C

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.

Date of release: January 15, 2016

Date of expiration: July 31, 2017


  
 QC Coordinator