Agilent Technologies

Certificate of Analysis

Mercury Calibration Standard

Agilent Part Number: **8500-6941** **Lot Number:** **12-55HGY2**

Analyte	CAS#	Labeled Conc.	Measured Conc.	SRM	Start Mat'l Formula	Start Mat'l Purity
Hg	7439-97-6	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% HNO_3: HNO_3 (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	0.3	Cr	0.1	Ho	<0.01	Nb	<0.03	Ru	<0.01	Th	<0.01
Al	10	Cs	<0.02	In	<0.03	Nd	<0.02	Sb	<0.03	Ti	<0.2
As	<1	Cu	0.2	Ir	<0.08	Ni	<0.2	Sc	<0.2	Tl	<0.1
Au	<10	Dy	<0.02	K	0.5	P	<200	Se	<4	Tm	<0.01
B	2	Er	<0.01	La	<0.01	Pb	0.06	Si	<50	U	<0.01
Ba	0.04	Eu	<0.01	Li	<0.1	Pd	<10	Sm	<0.01	V	<0.1
Be	<0.03	Fe	1	Lu	<0.01	Pr	<0.01	Sn	<0.05	W	<0.09
Bi	0.03	Ga	<0.1	Mg	0.3	Pt	<0.07	Sr	<0.08	Y	<0.04
Ca	4	Gd	<0.01	Mn	<0.7	Rb	<0.07	Ta	<0.07	Yb	<0.02
Cd	<0.2	Ge	0.2	Mo	<0.2	Re	<0.06	Tb	<0.01	Zn	1
Ce	<0.02	Hf	<0.01	Na	0.8	Rh	<0.01	Te	<0.06	Zr	<0.05
Co	<0.01										

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 17034 regulations.

Date of release: August 15, 2020
Date of expiration: February 28, 2022

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QC Coordinator

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