

Certificate of Analysis

Mercury Calibration Standard

Agilent Part Number: 8500-6941
Lot Number: 8-123HGY2A

| 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% 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%:

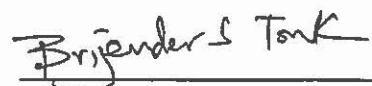
| Element | Conc. | Element | Conc. | Element | Conc. | Element | Conc. | Element | Conc. | Element | Conc. |
|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
| Ag | <0.5 | Cr | <0.3 | Ho | <0.06 | Nb | <0.5 | Ru | <2 | Th | <0.09 |
| Al | 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 | Fa | <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.

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