

# Certificate of Analysis

## Multi Element Calibration Standard 2A - HG

Agilent Part Number: 8500-6940-HG

Lot Number: 9-70HGY2

| 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% 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      | 1     | Cr      | 0.5   | Ho      | <0.01 | Nb      | <0.01 | Ru      | <0.02 | Th      | <0.01 |
| Al      | 0.2   | Cs      | <0.01 | In      | 0.02  | Nd      | <0.01 | Sb      | <0.01 | Tl      | <0.03 |
| As      | <0.05 | Cu      | <0.02 | Ir      | <0.01 | Ni      | <0.3  | Se      | 0.03  | Tl      | 0.3   |
| Au      | <10   | Dy      | <0.01 | K       | 1     | P       | <100  | Se      | <0.3  | Tm      | <0.01 |
| B       | <2    | Er      | <0.01 | La      | 0.8   | Pb      | 0.09  | Si      | <100  | U       | <0.01 |
| Ba      | <0.02 | Eu      | <0.01 | Li      | <0.01 | Pd      | <10   | Sm      | <0.01 | V       | <0.02 |
| Be      | <0.03 | Fe      | 0.5   | Lu      | <0.01 | Pr      | <0.01 | Sn      | <0.01 | W       | <0.09 |
| Bi      | <0.01 | Ga      | <0.02 | Mg      | 0.1   | Pt      | <0.02 | Sr      | 0.1   | Y       | <0.01 |
| Ca      | 0.2   | Gd      | <0.01 | Mn      | 0.07  | Rb      | <0.01 | Ta      | <0.02 | Yb      | <0.01 |
| Cd      | <0.02 | Ge      | <0.04 | Mo      | 0.2   | Re      | <0.01 | Tb      | <0.01 | Zn      | <0.08 |
| Ce      | <0.01 | Hf      | <0.01 | Na      | 0.6   | Rh      | <0.01 | Te      | <0.03 | Zr      | <0.01 |
| Co      | <0.01 |         |       |         |       |         |       |         |       |         |       |

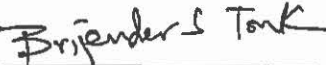
Balances are calibrated regularly with weight sets traceable to NIST.

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. This standard was manufactured following the guidelines set forth under ISO 17025 and ISO Guide 34 regulations.

Date of release: November 15, 2016

Date of expiration: May 31, 2018

  
QC Coordinator