Agilent Technologies

# Certificate of Analysis

## 6020 Interference Check Solution B 100mL

**Agilent Part Number:** 5188-6527 **Lot Number:** 3-112MKBY2

| Analyte | CAS# | Labeled Conc. | Measured Conc. | SRM | Start Mat'l Formula | Start Mat'l Purity | Analyte | CAS# | Labeled Conc. | Measured Conc. | SRM | Start Mat'l Formula | Start Mat'l Purity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Co | 7440-48-4 | 20.0 µg/mL | 20.1 µg/mL | 3113* | Co | 99.99+ | As | 7440-38-2 | 10.0 µg/mL | 9.91 µg/mL | 3103a* | As | 99.99+ |
| Cr | 7440-47-3 | 20.0 µg/mL | 19.9 µg/mL | 3112a* | $Cr(NO_3)_3$-$9H_2O$ | 99.99+ | Cd | 7440-43-9 | 10.0 µg/mL | 10.0 µg/mL | 3108* | CdO | 99.99+ |
| Cu | 7440-50-8 | 20.0 µg/mL | 19.8 µg/mL | 3114* | Cu | 99.99+ | Se | 7782-49-2 | 10.0 µg/mL | 10.0 µg/mL | 3149* | Se | 99.99+ |
| Mn | 7439-96-5 | 20.0 µg/mL | 19.9 µg/mL | 3132* | Mn | 99.99+ | Zn | 7440-66-6 | 10.0 µg/mL | 10.1 µg/mL | 3168a* | Zn | 99.99+ |
| Ni | 7440-02-0 | 20.0 µg/mL | 20.0 µg/mL | 3136* | Ni | 99.99+ | Ag | 7440-22-4 | 5.00 µg/mL | 5.01 µg/mL | 3151* | Ag | 99.99+ |
| V | 7440-62-2 | 20.0 µg/mL | 19.9 µg/mL | 3165* | $NH_4VO_3$ | 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. Other reference standards used: 23-120VY, 23-173VY.

**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. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <1 | Er | <0.04 | Ir | <0.1 | P | <200 | Sb | 0.8 | Th | <0.03 |
| Au | <0.2 | Eu | <0.03 | K | <100 | Pb | 0.3 | Sc | <0.4 | Ti | <1 |
| B | <2 | Fe | <6 | La | <0.08 | Pd | <0.4 | Si | <100 | Tl | <0.1 |
| Ba | 0.3 | Ga | <0.3 | Li | <0.9 | Pr | <0.01 | Sm | <0.02 | Tm | <0.03 |
| Be | <0.1 | Gd | <0.03 | Lu | <0.04 | Pt | <0.2 | Sn | <0.2 | U | <0.05 |
| Bi | <0.3 | Ge | <1 | Mg | 2 | Rb | <0.3 | Sr | <0.06 | W | <0.4 |
| Ca | <20 | Hf | <0.04 | Mo | <0.3 | Re | <0.02 | Ta | <0.08 | Y | <0.02 |
| Ce | <0.01 | Hg | <0.6 | Na | <5 | Rh | <0.1 | Tb | <0.01 | Yb | <0.06 |
| Cs | <0.1 | Ho | <0.03 | Nb | <0.1 | Ru | 0.2 | Te | <0.5 | Zr | <0.06 |
| Dy | <0.02 | In | <0.04 | Nd | <0.05 | | | | | | |

Balances are calibrated regularly with weight sets traceable to NIST.

Agilent reference standards are guaranteed stable and accurate to ±0.5% of measured analyte concentration. This uncertainty is at 95% confidence interval, a coverage factor of 2. 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

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QC Coordinator

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