Agilent Technologies

Certificate of Analysis

6020 Interference Check Solution B 100mL

Agilent Part Number: 5188-6527 **Lot Number:** 3-04MKBY2

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	20.0 µg/mL	3113*	Co	99.99+	As	7440-38-2	10.0 µg/mL	9.99 µg/mL	3103a*	As	99.99+
Cr	7440-47-3	20.0 µg/mL	19.9 µg/mL	3112a*	$Cr(NO_3)_3 \cdot 9H_2O$	99.99+	Cd	7440-43-9	10.0 µg/mL	9.94 µg/mL	3108*	CdO	99.99+
Cu	7440-50-8	20.0 µg/mL	20.3 µg/mL	3114*	Cu	99.99+	Se	7782-49-2	10.0 µg/mL	9.90 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	9.96 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	4.93 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: 19-173VY,20-207VY.

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	0.5	Er	<0.01	Ir	<0.01	P	<30	Sb	0.9	Th	<0.01
Au	<0.01	Eu	0.02	K	2	Pb	0.1	Sc	<0.05	Tl	<0.04
B	0.3	Fe	6	La	<0.01	Pd	<2	Si	<30	Tl	0.02
Ba	0.03	Ga	<0.7	Li	<0.02	Pr	<0.01	Sm	<0.06	Tm	<0.01
Be	<0.02	Gd	<0.01	Lu	<0.01	Pt	<0.01	Sn	0.1	U	<0.01
Bi	0.07	Ge	<0.05	Mg	2	Rb	0.3	Sr	<0.07	W	<0.04
Ca	<1	Hf	<0.01	Mo	<0.2	Re	<0.01	Ta	<0.02	Y	0.01
Ce	<0.01	Hg	<0.02	Na	1	Rh	<0.6	Tb	<0.04	Yb	<0.01
Cs	<0.01	Ho	<0.01	Nb	0.06	Ru	2	Te	0.1	Zr	0.07
Dy	<0.01	In	0.02	Nd	<0.01						

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: November 30, 2016

Date of expiration: May 31, 2018

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QC Coordinator

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