

Certificate of Analysis

6020 Interference Check Solution A

Agilent Part Number: 5188-6526

Lot Number: 23-44GSY2

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
Cl ⁻	7847-01-0	20000 µg/mL	19969 µg/mL	0711†	HCl	99.99+	K	7440-09-7	1000 µg/mL	1006 µg/mL	3141a*	KNO ₃	99.99+
Ca	7440-70-2	3000 µg/mL	2973 µg/mL	3109a*	Ca(NO ₃) ₂ ·4H ₂ O	99.99+	Mg	7439-95-4	1000 µg/mL	999 µg/mL	3131a*	Mg(NO ₃) ₂ ·6H ₂ O	99.99+
Fe	7439-89-8	2500 µg/mL	2488 µg/mL	3126a*	Fe	99.99+	P	7723-14-0	1000 µg/mL	995 µg/mL	3139a*	(NH ₄)H ₂ PO ₄	99.99+
Na	7440-23-5	2500 µg/mL	2508 µg/mL	3152a*	NaCl	99.99+	S	7783-20-2	1000 µg/mL	995 µg/mL	3154*	(NH ₄) ₂ SO ₄	99.99+
C	7440-44-0	2000 µg/mL	1995 µg/mL	0312a†	CH ₃ COOH	99.99+	Mo	7439-98-7	20.0 µg/mL	19.8 µg/mL	3134*	(NH ₄) ₂ MoO ₇ ·4H ₂ O	99.99+
Al	7429-90-5	1000 µg/mL	994 µg/mL	3101a*	Al	99.99+	Ti	7440-32-8	20.0 µg/mL	19.9 µg/mL	3162a*	Ti	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

0.1% HF: HF (CAS No. 7664-39-3) 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: 23-70VY, 23-126VY.

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	<5	Cr	<10	Hg	<5	Ni	<5	Sc	<10	Ti	<10
As	<5	Cs	<10	Ho	<10	Pb	<10	Se	<5	Tm	<10
Au	<10	Cu	<5	In	<10	Pd	<10	Si	<2000	U	<10
B	<40	Dy	<10	Ir	<10	Pr	<10	Sm	<10	V	<5
Ba	<10	Er	<10	La	<10	Pt	<10	Sr	<10	W	<10
Be	<10	Eu	<10	Li	<10	Rb	<100	Sr	<100	Y	<10
Bi	<10	Ga	<10	Lu	<10	Ra	<10	Ta	<10	Yb	<10
Cd	<5	Gd	<10	Mn	<15	Rh	<10	Tb	<10	Zn	<10
Ce	<10	Ge	<15	Nb	<10	Ru	<10	Te	<10	Zr	<10
Co	<5	Hf	<10	Nd	<10	Sb	<10	Th	<10		

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: December 31, 2016

Date of expiration: June 30, 2018

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