

Certificate of Analysis

Gold Tuning Solution

Agilent Part Number: 8500-7000

Lot Number: 9-72AUY2

Analyte	CAS#	Labeled Conc.	Measured Conc.	SRM	Start Mat'l Formula	Start Mat'l Purity
Au	7440-57-3	100 µg/mL	100 µg/mL	3121*	Au	99.99+

* - Indicates NIST SRM

† - Indicates CRM (when NIST SRM is not available)

Purity grades:

Starting Materials: Shown above

Matrix:

2% HCl: HCl (CAS No. 7647-01-0) 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%:

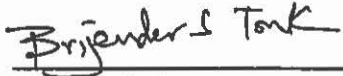
Element	Conc.	Element	Conc.	Element	Conc.	Element	Conc.	Element	Conc.	Element	Conc.
Ag	0.2	Ce	<0.01	Ho	<0.07	Nb	<0.2	Ru	<0.04	Th	<0.08
Al	<1	Cr	<0.1	In	<0.01	Nd	<0.02	Sb	<0.07	Tl	<0.5
As	1	Dy	<0.04	Ir	<0.09	Ni	<0.3	Se	<0.3	Tl	<0.1
B	<1	Er	<0.03	K	<30	P	<50	Se	<5	Tm	<0.08
Ba	<0.1	Eu	<0.04	La	0.7	Pb	<0.05	Si	<50	U	<0.01
Be	<0.1	Fe	2	Li	<0.2	Pd	0.1	Sm	<0.04	V	1
Bi	<0.01	Ga	<0.03	Lu	<0.04	Pr	<0.05	Sn	<0.5	W	<0.5
Ce	1	Gd	<0.03	Mg	<0.8	Pt	0.02	Sr	<0.05	Y	<0.04
Cd	<0.08	Ge	<1	Mn	<0.1	Rb	<0.05	Ta	<0.09	Yb	<0.04
Ce	<0.08	Hf	<0.01	Mo	<0.4	Re	<0.05	Tb	<0.03	Zn	0.3
Co	<0.1	Hg	3	Na	8	Rh	<0.03	Te	<0.1	Zr	<0.2
Cr	0.08										

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. 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 15, 2016

Date of expiration: June 30, 2018


QC Coordinator