

Certificate of Analysis

Gold Tuning Solution

Agilent Part Number: 8500-7000
Lot Number: 8-141AUY2

Analyte	CAS#	Labeled Conc.	Measured Conc.	SRM	Start Mat'l Formula	Start Mat'l Purity
Au	7440-57-5	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%:

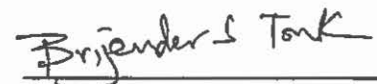
Element	Conc.	Element	Conc.	Element	Conc.	Element	Conc.	Element	Conc.	Element	Conc.
Ag	2	Cs	<0.01	Ho	0.08	Nb	<0.01	Ru	<0.01	Th	0.07
Al	0.1	Cu	0.05	In	<0.01	Nd	<0.01	Sb	0.2	Ti	<0.05
As	0.2	Dy	<0.01	Ir	<0.01	Ni	<0.02	Sc	<0.01	Tl	<0.02
B	<0.04	Er	<0.01	K	<10	P	<100	Se	<0.4	Tm	<0.01
Ba	<0.01	Eu	<0.01	La	<0.01	Pb	<0.01	Si	<100	U	<0.01
Be	<0.01	Fe	<0.2	Li	0.4	Pd	0.4	Sm	<0.01	V	<1
Bi	<0.01	Ga	<0.01	Lu	<0.01	Pr	<0.01	Sn	1	W	<0.1
Ca	<0.6	Gd	<0.01	Mg	0.08	Pt	<0.01	Sr	<0.01	Y	<0.01
Cd	<0.01	Ge	<0.01	Mn	<0.01	Rb	0.07	Ta	<0.01	Yb	<0.01
Ce	<0.01	Hf	<0.01	Mo	<0.03	Re	<0.01	Tb	<0.01	Zn	0.07
Co	<0.01	Hg	<1	Na	1	Rh	<0.01	Te	<0.02	Zr	0.3
Cr	<0.2										

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.

Date of release: January 15, 2016

Date of expiration: July 31, 2017



 QC Coordinator