



5824

ISO 17034 accredited

Certificate of Calibration

Code: COFCAL

Certificate Number: KL123456

Calibration and Issue Date: 17/11/2025

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Description:

**Copper 1000 ppm
element reference solution**

Category & Code:

ROMIL PrimAg[®]-xtra

E3CU6

Specification:

Cu AW 63.55

1000 ppm as Cu

Solute: Cu metal

Matrix: HNO₃ 0.5M

Application: AA, ICP, IC and ISE calibration

Batch Number:

KL123456

Certificate Validity:

Expiry: Dec 2026

Certified Value:

1000.2 ppm m/v @ 20°C

(ppm m/v = mg/L)

Expanded Uncertainty:

± 2.1 ppm

Traceability:

Ag primary rm

Certified Density:

1.0164 g/ml @ 20°C

Expanded Uncertainty:

0.0003 g/ml

Impurity Information (ppb):

unaccredited

Ag	<0.1	Eu	<0.1	Na	<0.1	Sn	0.1
Al	<0.1	Fe	<0.1	Nb	<0.1	Sr	<0.1
As	0.4	Ga	<0.1	Nd	<0.1	Ta	<0.1
Au	<0.1	Gd	<0.1	Ni	<0.1	Tb	<0.1
B	<0.1	Ge	<0.1	Os	<0.1	Te	<0.1
Ba	0.1	Hf	<0.1	Pb	0.1	Th	<0.1
Be	<0.1	Hg	0.9	Pd	5.9	Ti	0.5
Bi	0.1	Ho	<0.1	Pr	<0.1	Tl	<0.1
Ca	<0.1	In	<0.1	Pt	<0.1	Tm	<0.1
Cd	<0.1	Ir	<0.1	Rb	<0.1	U	<0.1
Ce	<0.1	K	13.2	Re	<0.1	V	<0.1
Co	<0.1	La	<0.1	Rh	2.7	W	<0.1
Cr	<0.1	Li	0.1	Ru	<0.1	Y	<0.1
Cs	<0.1	Lu	<0.1	Sb	<0.1	Yb	<0.1
Cu		Mg	<0.1	Sc	<0.1	Zn	1.1
Dy	<0.1	Mn	<0.1	Se	1.1	Zr	<0.1
Er	<0.1	Mo	<0.1	Sm	<0.1		

Elemental impurities were determined by ICP-MS on the solution as prepared. Values reported are raw data with no estimation made for uncertainty or spectrographic interferences. A 'less than' value (<) means 'not detected'. Impurity levels are supplied for information only and should not be used as calibration data.

Approved Signatory:

Name

Title

Signature



Generated from a master computer file which has been authorised by the signatory.

