



Certificate of Analysis

EPA Method 200.7 Lab Fortifying
Stock Solution #1

Catalog Number: ICM-245A

Lot Number: CP-3333

Lot Issue Date: 07/13/2016

Expiration Date: 08/31/2018

This Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system. The analyte concentrations were verified by our ISO 17025 accredited laboratory to be within $\pm 5.0\%$, when compared to calibration standards independently prepared using NIST SRM(s). The certified value and uncertainty value at the 95% confidence level for each analyte is determined gravimetrically.

Analyte	True Value				Analytical Method	NIST SRM
aluminum	25.0	$\pm$	0.1	$\mu\text{g/mL}$	ICP / ICP-MS	3101a
antimony	25.0	$\pm$	0.1	$\mu\text{g/mL}$	ICP / ICP-MS	3102a
arsenic	25.0	$\pm$	0.1	$\mu\text{g/mL}$	ICP / ICP-MS	3103a
barium	25.0	$\pm$	0.1	$\mu\text{g/mL}$	ICP / ICP-MS	3104a
beryllium	5.00	$\pm$	0.03	$\mu\text{g/mL}$	ICP / ICP-MS	3105a
boron	25.1	$\pm$	0.1	$\mu\text{g/mL}$	ICP / ICP-MS	3107
cadmium	10.0	$\pm$	0.1	$\mu\text{g/mL}$	ICP / ICP-MS	3108
chromium	25.0	$\pm$	0.1	$\mu\text{g/mL}$	ICP / ICP-MS	3112a
cobalt	10.0	$\pm$	0.1	$\mu\text{g/mL}$	ICP / ICP-MS	3113
copper	25.0	$\pm$	0.1	$\mu\text{g/mL}$	ICP / ICP-MS	3114
iron	25.0	$\pm$	0.1	$\mu\text{g/mL}$	ICP / ICP-MS	3126a
lead	25.0	$\pm$	0.1	$\mu\text{g/mL}$	ICP / ICP-MS	3128
lithium	25.0	$\pm$	0.1	$\mu\text{g/mL}$	ICP / ICP-MS	3129a
manganese	25.0	$\pm$	0.1	$\mu\text{g/mL}$	ICP / ICP-MS	3132
molybdenum	10.0	$\pm$	0.1	$\mu\text{g/mL}$	ICP / ICP-MS	3134
nickel	25.0	$\pm$	0.1	$\mu\text{g/mL}$	ICP / ICP-MS	3136
phosphorus	50.1	$\pm$	0.3	$\mu\text{g/mL}$	ICP / ICP-MS	3139a
selenium	25.0	$\pm$	0.1	$\mu\text{g/mL}$	ICP / ICP-MS	3149
silicon	25.0	$\pm$	0.1	$\mu\text{g/mL}$	ICP / ICP-MS	3150
* silver	2.50	$\pm$	0.01	$\mu\text{g/mL}$	ICP / ICP-MS	3151
strontium	25.0	$\pm$	0.1	$\mu\text{g/mL}$	ICP / ICP-MS	3153a
thallium	25.0	$\pm$	0.1	$\mu\text{g/mL}$	ICP / ICP-MS	3158
tin	10.0	$\pm$	0.1	$\mu\text{g/mL}$	ICP / ICP-MS	3161a
* vanadium	10.0	$\pm$	0.1	$\mu\text{g/mL}$	ICP / ICP-MS	3165
zinc	25.0	$\pm$	0.1	$\mu\text{g/mL}$	ICP / ICP-MS	3168a

Matrix: 2% nitric acid, trace hydrofluoric acid, and trace tartaric acid, in low TOC water (< 50 ppb)

* light sensitive

ULTRA uses purified acids, 18 megohm double deionized water, calibrated Class A glassware & meticulously cleaned bottles in the manufacturing of ULTRAgrade standards. Balances used in the manufacturing of this standard are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001.

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ISO 9001 Registered Quality System – TUV USA