



Certificate of Analysis

TCLP Analytes Mixture

Catalog Number: ICM-641

Lot Number: G00513Z

Job Number: J00005946

Lot Issue Date: 07/27/2011

Expiration Date: 08/31/2015

This Certified Reference Material (CRM) 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	NIST
					Method	SRM
arsenic	25.00	$\pm$	0.13	$\mu\text{g/mL}$	ICP / ICP-MS	3103a
barium	500.0	$\pm$	2.5	$\mu\text{g/mL}$	ICP / ICP-MS	3104a
cadmium	5.000	$\pm$	0.025	$\mu\text{g/mL}$	ICP / ICP-MS	3108
chromium	25.00	$\pm$	0.13	$\mu\text{g/mL}$	ICP / ICP-MS	3112a
lead	25.00	$\pm$	0.13	$\mu\text{g/mL}$	ICP / ICP-MS	3128
selenium	5.000	$\pm$	0.025	$\mu\text{g/mL}$	ICP / ICP-MS	3149
* silver	25.00	$\pm$	0.13	$\mu\text{g/mL}$	ICP / ICP-MS	3151

Matrix: 5% nitric acid in low TOC water (< 50 ppb)

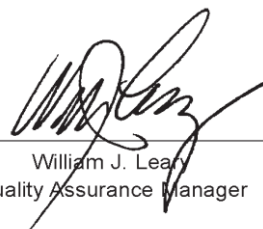
** light sensitive*

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



ISO 17025:2005
Accredited
A2LA
Cert. No. 0851.01

ISO 9001:2000
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TUV USA, Inc.
Cert. No. 06-1004


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