



# ENVIRONMENTAL LABORATORY LICENSE

Issued to:

Laboratory Director: Yongtao (Bruce) Li, Ph.D.  
Owner/Representative: Yongtao (Bruce) Li, Ph.D.

*Underwriters Laboratories, Inc.*  
**AZ0432**

is in compliance with Environmental Laboratory's applicable standards for the State of Arizona and maintains on file a List of Parameters for which the laboratory is certified to perform analysis.

**PERIOD OF LICENSURE FROM: 07/26/2011 TO: 07/25/2012**



A handwritten signature in black ink, appearing to read "S. Baker".

Steven D. Baker, Chief  
Office of Laboratory Licensure & Certification  
Bureau of State Laboratory Services

**Arizona Department of Health Services  
Office of Laboratory Licensure, Certification & Training  
250 North 17th Avenue, Phoenix, AZ 85007**

Thursday, July 21 2011

**AZ License: AZ0432**

**Lab Name: Underwriters Laboratories, Inc.**

**Lab Director: Dr. Yongtao (Bruce) Li**

**Phone: (574) 233-4777**

**Fax: (574) 233-8207**

Program	SDW	Parameter	EPA Method	Billing Code	Cert Date
		Acetanilide Degradation Products - Additional	EPA 535 (1.1)	OC37	05/23/07
		Acetanilide Parent Compound - Additional	EPA 525.2 (2.0)	OC34	05/17/07
		Acid Extractable Metals	SM 3030C	PREP1	05/17/07
		Alkalinity	SM 2320B	NIA1	11/06/95
		Aluminum	EPA 200.7	MTL3	02/06/02
		Aluminum	EPA 200.8	MTL7	09/30/96
		Antimony	EPA 200.8	MTL7	06/23/94
		Arsenic	EPA 200.8	MTL7	11/01/95
		Barium	EPA 200.8	MTL7	11/01/95
		Beryllium	EPA 200.8	MTL7	06/23/94
		Bromate	EPA 300.1	NIIIA1	06/08/01
		Bromate	EPA 317.0	NIIIA2	05/16/08
		Bromide	EPA 300.0	NIIIA1	06/08/01
		Cadmium	EPA 200.8	MTL7	11/01/95
		Calcium	EPA 200.7	MTL3	06/08/01
		Carbamates By Hplc/Post Column	EPA 531.1 (3.1)	OC4	07/19/93
		Carbamates By Hplc/Post Column	EPA 531.2 (1.0)	OC4	06/08/11
		Carbamates By Hplc/Post Column - Additional	EPA 531.2 (1.0)	OC34	06/08/11
		Carbamates-By Hplc/Post Column - Additional	EPA 531.1 (3.1)	OC34	05/17/07
		Carbon, Dissolved Organic	SM 5310C	MISC1	10/24/07
		Carbon, Total Organic	SM 5310C	MISC1	06/02/99
		Chloramine	SM 4500 CL-F	NIIA7	06/30/06
		Chloride	EPA 300.0	NIIIA1	06/23/94
		Chlorinated Acids And Dalapon By Gc/Ecd	EPA 515.3 (1.0)	OC4	05/17/07
		Chlorinated Acids And Dalapon By Gc/Ecd - Additional	EPA 515.3 (1.0)	OC34	06/19/01
		Chlorine	SM 4500-CL G	NIA3	07/19/93
		Chlorine Dioxide	SM 4500-CL02 D	NIA17	05/31/06
		Chlorite	EPA 300.0	NIIIA1	06/02/99
		Chromium Total	EPA 200.8	MTL7	11/01/95
		Color	SM 2120B	NIA4	11/01/95
		Copper	EPA 200.8	MTL7	06/23/94
		Corrosivity	SM 2330B	NIA5	11/01/95
		Cyanide	EPA 335.4	MISC7	07/16/96
		Cyanide	QUIKCHEM 10204-00-1X	MISC7	06/08/11
		Dbp, Solvents And Pesticides	EPA 551.1 (1.0)	OC4	06/02/99
		Dbp,Solvents & Pesticides - Additional	EPA 551.1 (1.0)	OC10	02/22/99
		Dioxin	EPA 1613B	OC17	04/17/03
		Diquat	EPA 549.2 (1.0)	OC22	06/08/01

**Arizona Department of Health Services  
Office of Laboratory Licensure, Certification & Training  
250 North 17th Avenue, Phoenix, AZ 85007**

Thursday, July 21 2011

AZ License: **AZ0432**

Lab Name: **Underwriters Laboratories, Inc.**

Program	SDW	Parameter	EPA Method	Billing Code	Cert Date
		Diquat And Paraquat - Additional	EPA 549.2 (1.0)	OC34	05/17/07
		Edb/Dbcp	EPA 504.1 (1.1)	OC4	06/02/99
		Endothall	EPA 548.1 (1.0)	OC23	11/07/95
		Explosives And Related Compounds - Additional	EPA 529	OC33	05/23/07
		Fluoride	380-75WE	NIB3	02/19/98
		Fluoride	EPA 300.0	NIIIA1	05/17/07
		Fluoride	SM 4500-F C	NIB9	05/16/08
		Giardia And Cryptosporidium	EPA 1623	MIC10	05/17/07
		Glyphosate	EPA 547 (7/90)	OC24	07/19/93
		Gross Alpha	SM 7110B	RADIO	04/17/03
		Gross Alpha	SM 7110C	RADIO	04/17/03
		Gross Beta	SM 7110B	RADIO	04/17/03
		Haloacetic Acids And Dalapon By Gc-Ecd	EPA 552.2 (1.0)	OC25	06/02/99
		Haloacetic Acids-By Additional	EPA 552.2	OC34	05/17/07
		Hardness	SM 2340B	MTL3	07/19/96
		Hydrogen Ion (Ph)	EPA 150.1	NIA6	07/19/93
		Iron	EPA 200.7	MTL3	06/08/01
		Lead	EPA 200.8	MTL7	06/23/94
		Magnesium	EPA 200.7	MTL3	06/08/01
		Manganese	EPA 200.7	MTL3	06/04/02
		Manganese	EPA 200.8	MTL7	06/23/94
		Mercury	EPA 245.1	MTL5	06/08/01
		Nickel	EPA 200.8	MTL7	06/23/94
		Nitrate	EPA 300.0	NIIIA1	06/23/94
		Nitrate	EPA 353.2	NIB1	06/23/94
		Nitrite	EPA 353.2	NIIB4	09/15/94
		Nitrosamines By Ms/Ms - Additional	EPA 521	OC37	05/23/07
		Organics By Gc/Ms	EPA 525.2 (2.0)	OC16	04/10/93
		Organics By Gc/Ms - Additional	EPA 525.2 (2.0)	OC34	01/15/03
		Orthophosphate	SM 4500-P E	NIIB5	06/02/99
		Perchlorate	EPA 314.0	NIB5	02/06/02
		Perchlorate	EPA 331.0	NIIIA3	05/23/07
		Pesticides & Flame Retardants By Gc/Ms - Additional	EPA 527	OC33	05/23/07
		Pesticides And Pcb's By Gc	EPA 505 (2.1)	OC9	07/19/93
		Radium 226	SM 7500-RA B	RADIO	04/17/03
		Radium 228	SM 7500-RA D	RADIO	04/17/03
		Residue, Filterable (Tds)	SM 2540C	NIA6	07/19/93
		Selenium	EPA 200.8	MTL7	11/01/95
		Silica	EPA 200.7	MTL3	06/04/02
		Silver	EPA 200.7	MTL3	06/09/04

**Arizona Department of Health Services  
Office of Laboratory Licensure, Certification & Training  
250 North 17th Avenue, Phoenix, AZ 85007**

Thursday, July 21 2011

**AZ License: AZ0432**

**Lab Name: Underwriters Laboratories, Inc.**

<b>Program</b>	<b>SDW</b>			
	<b>Parameter</b>	<b>EPA Method</b>	<b>Billing Code</b>	<b>Cert Date</b>
	Silver	EPA 200.8	MTL7	09/15/94
	Sodium	EPA 200.7	MTL3	06/08/01
	Specific Conductance	SM 2510B	NIA7	11/01/95
	Sulfate	EPA 300.0	NIIIA1	06/23/94
	Temperature	SM 2550	NIA18	05/29/98
	Thallium	EPA 200.8	MTL7	06/23/94
	Tritium	EPA 906	RADIO	06/10/05
	Turbidity, Ntu: Nephelometric	EPA 180.1	NIA9	07/19/93
	Uranium	EPA 200.8	MTL7	09/27/04
	Uv Absorbing Organic Constituents	SM 5910B	NIB6	06/02/99
	Vocs By Gc/Ms	EPA 524.2 (4.1)	OC8	01/15/03
	Vocs By Gc/Ms-Additional	EPA 524.2 (4.1)	OC10	05/17/07
	Zinc	EPA 200.8	MTL7	11/07/95
Total Licensed Parameters in this Program:		91		

<b>Instruments</b>	<b>Quantity</b>	<b>Date</b>
GAS CHROMATOGRAPH/MASS SPECTROMETER	10	06/02/11
GAS CHROMATOGRAPH	6	06/02/11
ION CHROMATOGRAPH	5	06/08/11
HIGH PERFORMANCE LIQUID CHROMATOGRAPH	3	06/02/11
HIGH PERFORMANCE LIQUID CHROMATOGRAPH/MASS SPE	2	05/19/08
COUNTERS FOR RADIOACTIVITY	2	05/19/08
INDUCTIVELY COUPLED PLASMA SPECTROMETER	1	06/08/01
INDUCTIVELY COUPLED PLASMA/MASS SPECTROMETER	1	05/31/06
AUTOMATED AUTOANALYZER	1	06/02/11
MERCURY ANALYZER	1	06/08/01

<b>Softwares</b>
VARIAN STAR - GC
VARIAN STAR - HPLC
AGILENT - ICP/MS
VARIAN - ICP
VARIAN SATURN-GCMS
LEEMAN HYDRA - MERCURY ANALYZER
CHROMELEON (DIONEX) - IC
LACHAT Omnion - FIA
PC Titrate
Cannberra
PERKIN-ELMER (RA)

Arizona Department of Health Services  
Office of Laboratory Licensure, Certification & Training  
250 North 17th Avenue, Phoenix, AZ 85007

Page: 4

Thursday, July 21 2011

**AZ License: AZ0432**

**Lab Name: Underwriters Laboratories, Inc.**

Water Mass Lynx - HPLC/MS