



ANNOUNCEMENT

8th UILI Inter Laboratory Practice 2014

February, 2014

1. Name of the proficiency test

8th UILI Inter-Laboratory Practice 2014 – “Metals in pure water”

Sample 1 and 2

(Concentration of target elements will be no-need of pre-treatment and/or concentration)

2. Provider

Union Internationale des Laboratoires Indépendants (UILI), ILP Committee.

3. Time schedule

- a) Deadline of application : March 30, 2014
- b) Distribution of test samples : April 8, 2014
- c) Deadline of reporting : May 23, 2014
- d) Issue of final report : September, 2014

[NOTE]

- No reports, including resubmitting, after due date are accepted.
- Date of sample distribution differs among participants according to application date and shipping condition.

4. Method of participation

Send E-mail to Ms. Melissa M. Fernández Valero (UILI secretary).

E-mail: secretariat@uili.org (or register on the UILI website www.uili.org.)

Please notify the information below in your email:

- a) Full name of your company/organization/institution and laboratory
- b) Postal address of your laboratory (including country name and zip code)

- c) Full name of contact person
- d) Phone number of contact person (including country code)
- e) E-mail address of contact person
- f) Description of "UILI Member" or "non-member"

5. Participation fee

- a) Participation fee

UILI Member : € 200.00 (for 1 set, not for 1 bottle)

UILI Non-Member : € 300.00 (for 1 set, not for 1 bottle)

- b) Method of payment

Invoice will be sent to you by e-mail after your application is completed.

- c) Participation fee includes:

- 1) Testing samples
- 2) Shipping charge for samples
- 3) Final report (electronic media; issued by UILI)
- 4) Certification / diploma (printed paper; issued by UILI)
- 5) Shipping charge for 'Certification/ diploma'

6. Samples for analysis

- a) Name of test sample (printed on each label):

1) Sample 1: UILI-ILP-8-2014 pure water-1

2) Sample 2: UILI-ILP-8-2014 pure water-2

- b) Container of testing sample et al.

- c) 100mL of sample is contained in 100mL volume plastic bottle.

7. Target compounds for analysis

a) Metals (15 items)

Aluminum(Al)	Antimony (Sb)	Arsenic (As)
Beryllium(Be)	Boron(B)	Cadmium (Cd)
Copper (Cu)	Lead (Pb)	Magnesium(Mg)
Manganese (Mn)	Mercury (Hg)	Nickel (Ni)
Titanium(Ti)	Total Chromium (Cr)	Zinc (Zn)

b) Expected concentration range

Target Compounds	Concentration Range (µg/L) ¹	
	UILI-ILP-8-2014 pure water-1 (Sample 1)	UILI-ILP-8-2014 pure water-2 (Sample 2)
Aluminum(Al)	1 – 1000	1 – 1000
Antimony (Sb)	0,5 – 50	0,5 – 50
Arsenic (As)	0,5 – 50	0,5 – 50
Beryllium(Be)	1 – 1000	1 – 1000
Boron(B)	1 – 1000	1 – 1000
Cadmium (Cd)	5 – 500	5 – 500
Copper (Cu)	10 – 1000	10 – 1000
Lead (Pb)	5 – 500	5 – 500
Magnesium(Mg)	1 – 1000	1 – 1000
Manganese (Mn)	5 - 500	5 - 500
Mercury (Hg)	0,5 – 50	0,5 – 50
Nickel (Ni)	5 – 500	5 – 500
Titanium(Ti)	1 – 1000	1 – 1000
Total Chromium (Cr)	5 - 500	5 - 500
Zinc (Zn)	5 - 500	5 - 500

Concentration range of 10 times diluted sample solution.

c) Samples have no “Assigned Value” such as “Reference Value” and/or “Certified Value” related for “True Value”.

8. Pretreatment and analytical procedure

Pretreatment and analytical method is not limited (provider do not instruct). Participating laboratory can select the method for pre-treatment and instrumental measurement. Report a selected method No. from a table in "ATTACHMENT" which is attached at the end of this announcement.

9. Reporting analytical results

- a) Independent analyses are requested to be carried out twice from sample preparation. Report the "mean value" of these 2 data (Original data before the calculation of "mean value" is not needed. Statistical values such as "standard deviation" are not needed). If you cannot analyze twice (e.g. in case of sample lack), reporting one data is acceptable.
- b) Pretreatment for both Sample 1 and 2 are required in this test.
- c) Round reporting values in significant 3 figures, according to ISO31-0:1992, Quantities and units - Part 0: General principles, Annex B (Guide to the rounding of numbers). Report should be done by a data set of Sample 1 and 2.
- d) A "non-full set result" is acceptable (e.g. In case that your laboratory prefers to report only on "Cadmium", report only the result of "Cadmium").
- e) Method of Reporting
 - 1) Report Method No. ("Pre-treatment" and "Measurement by Instrument") referring to "ATTACHMENT" (table (A) and (B)) which is attached at the end of this announcement.
 - 2) For participants selected pretreatment method "others", indicate detail of the method. **No indication is unacceptable. In the case "others" were selected with no detail, UILI will require resubmitting of the report.**
 - 3) Use unit " $\mu\text{g/L}$ " for reporting value for both Sample 1 and 2.
 - 4) Reporting are requested to use format "Result of Analysis" for 8th UILI-ILP attached at the end of this announcement, including resubmitting report. **Reporting in different format is unacceptable. In the case non-UILI format is submitted, UILI will require resubmitting of the report.**
- f) Send the report to secretariat@uili.org (Ms. Melissa M. Fernández Valero) by **May 23, 2014 – including resubmitting reports**. No reports after due date are accepted.

10. Issue of the final report by UILI

- a) Final report will be issued on November 2014 by electronic media for participants.
- b) Following methods will be adopted for statistical analysis. The report will include these statistics.
 - 1) z-score: by ISO/IEC 17043 and related standards
 - 2) Quartile Method (robust statistics method): by APLAC "T001"
 - 3) Confidence Ellipse for Youden Plot" by ISO 13528
- c) As far as analytical methods were not designated for this test and median value is not always equal to "true value", evaluation by statistic will be inadequate.
- d) A list of participating laboratories will be included in the report. The result of each laboratory will be shown by "laboratory identification numbers". However, the relationship between the "laboratory identification numbers" and the "names of participating laboratories" will not be indicated. Your identification number will be informed in the letter attached, separated with the report.

11. Others

- a) This test or the final reports on the test results is not aimed to assess the performance of the laboratories or relating personnel by the organizer of the test or third person.
- b) Participants to this test will be issued a Certificate by UILI for its participation.

This announcement is not the final version until sample distribution. We encourage applicants to check the latest version.

UILI-ILP Committee Member

UILI position	Name	Representing country	Name of association
President	Dr. Manahén Fernandez-Alonso	Spain	Asociación Española de Laboratorios Independientes (AELI)
Past President	Dr. Hideo Tabata	Japan	Japan Environmental Measurement and Chemical Analysis Association (JEMCA)
Vice President	Ir. Jan Soers	Belgium	Union Professionnelle des Laboratoires d'Essais, d'Analyses et de Recherches (UPLEAR)
Vice President	Mr. Gib G. McIntee	Canada	Canadian Council of Independent Laboratories (CCIL)
Secretary General	Drs Luc H A Scholtis	Netherlands	Vereniging van Raadgevend Scheikundige Laboratoria (VRS)
Governing Board Representative	Dr. Álvaro Silva Ribeiro	Portugal	Associação de Laboratórios Acreditados de Portugal (RELACRE)
Governing Board Alternate	Mr. Jorge Oliver-Rodés	Spain	Asociación Española de Laboratorios Independientes (AELI)
Governing Board Alternate	Mr. Masahiro Tanaka	Japan	Japan Environmental Measurement and Chemical Analysis Association (JEMCA)
Treasurer	Dr. Toru Matsumura	Japan	Japan Environmental Measurement and Chemical Analysis Association (JEMCA)

ATTACHMENT

(A) Pre-treatment

No.	Method	Abbreviation
1	Liquid-liquid extraction	LLE
2	Solid phase extraction	SPE
3	Co-precipitation	CP
4	Only dilution	Dil
5	Acid decomposition	AD
6	Others	Others

(B) Measurement by Instrument

No.	Instrument	Abbreviation
1	Atomic absorption spectrophotometry (flame)	AAS
2	Atomic absorption spectrophotometry (furnace)	ETAAS
3	Hydride-generation atomic absorption spectrophotometry	HG-AAS
4	Cold vapor atomic absorption spectrophotometry	CVAAS
5	ICP-AES	ICP-AES
6	Hydride-generation ICP-AES	HG-ICP-AES
7	ICP-MS	ICP-MS
8	Ion-chromatography	IC
9	Ion-selective electrode	IE
10	Polarography	Pol
11	Stripping voltammetry (anodic/cathodic/adsorptive)	SVE
12	Neutron activation analysis	NAA
13	Colorimetry (absorptiometry)	Col
14	Spectrofluorometry (Fluorescence analysis)	FPA
15	Others	Others

Result of Analysis for 8th UILI-ILP

Target Compounds	Pretreatment No.				Measurement by Instrument No.		Result of Analysis (µg /L)	
	Sample 1		Sample 2		Sample 1	Sample 2	Sample 1	Sample 2
	No.	notes	No.	notes				
Cd								
Zn								
T-Cr								
Hg								
Mn								
As								
Pb								
Sb								
Cu								
Ni								
Al								
Mg								
Be								
Ti								
B								

- 1) Report the value of 10 times diluted sample solution. Pretreatment for both Sample 1 and 2 are required in this test.
- 2) For participants selected pretreatment method “others”, indicate detail of the method in column “notes” of the format.
No indication is unacceptable. In the case “others” were selected with no detail, UILI will require resubmitting of the report.
- 3) Round reporting values in significant 3 figures for both Sample 1 and 2.
- 4) Send the report to **Secretariat@UILI.org (Ms. Melissa M. Fernández Valero) by May 23, 2014. No reports after due date are accepted.**
- 5) Reporting is requested to use format “Result of Analysis for 8th UILI-ILP” above (see page 8), including resubmitting report.
Reporting in different format is unacceptable. In the case non-UILI format is submitted, UILI will require resubmitting of the report.