



Ref	: 20 th UILI ILP 2018
Version	: 1.0
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INSTRUCTION SHEET

May 23, 2017

1. Name of the proficiency test

20th UILI Interlaboratory Practice 2018

**“Waxes, Free Acidity, Peroxide Value, UV Spectrophotometric Test,
Fatty Acid Methyl Esters and Stigmastadienes in Virgin Olive Oil”**

Aimed as a global exercise for laboratories in different countries of the world

2. Provider

Union Internationale des Laboratoires Indépendants (UILI), ILP Working Group.

3. Time schedule

- a) Deadline of application: July 1, 2018
- b) Distribution of test samples: July 1, 2018
- c) Deadline of reporting: September 1, 2018
- d) Issue of final report: December 1, 2018

[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 Mrs. Melissa Fernández Valero (UILI secretary)

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

Please use the Appendix **“participant contact details”** form attached or include always the following information in your e-mail:

ILP Number / Name

Participant: Company name, Contact person, Subscriber e-mail, Phone

Sample delivery: Company name, House name, Street, House number, P.O. Box, Section, Postal code, City, State, Country

Invoicing: Company name, VAT / Tax ID / NIF / CIF number, Contact person, Invoice e-mail

Reporting: Contact person, Report e-mail



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5. Participation fee

a) Participation fee

UILI Member : € 225.00 (for 1 set, not for 1 bottle)
UILI Non-Member : € 325.00 (for 1 set, not for 1 bottle)

Prices are excluding sample logistics costs

b) Method of payment

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

Payments should be made to our bank account at:

ABN AMRO BANK - BIC: ABNANL2A - IBAN: NL79ABNA0533251109

c) Participation fee includes:

- 1) Testing samples
- 2) Final report (electronic media; issued by UILI)
- 3) Certificate / diploma

d) Shipping charges for samples

Samples will be shipped by our preferred courier. Sample logistic costs will be charged separately as a direct cost to the participant.

6. Samples for analysis

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

- 1) Sample 1: UILI-ILP 20-2018 olive oil-1

b) Container of testing sample et al.

200 mL of sample is contained in 200 mL volume dark glass bottle.



7. Target compounds for analysis

- a) Waxes, Free Acidity, Peroxide Value, UV Spectrophotometric Test (K270/K268, K232 and Delta K), Fatty Acid Methyl Esters (lauric acid, myristic acid, palmitic acid, palmitoleic acid, heptadecanoic acid, heptadecenoic acid, stearic acid, oleic acid, linoleic acid, linolenic acid, arachidic acid, gadoleic acid (eicosenoic), behenic acid, lignoceric acid) and Stigmastadienes (21 items).

Waxes	Free Acidity	Peroxide Value
K270/K268	K232	Delta K
Lauric Acid	Myristic Acid	Palmitic Acid
Palmitoleic Acid	Heptadecanoic Acid	Heptadecenoic Acid
Stearic Acid	Oleic Acid	Linoleic Acid
Linolenic Acid	Arachidic Acid	Gadoleic Acid
Behenic Acid	Lignoceric Acid	Stigmastadienes

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b) Expected concentration range

Target Compounds	Concentration Range (unit)
	UILI-ILP-20-2018 olive oil-1 (Sample 1)
Waxes (mg/kg)	
Free Acidity (% m/m)	
Peroxide Value (milleq O ₂ /kg)	
K270/K268	
K232	
Delta K	
Lauric Acid (% m/m)	
Myristic Acid (% m/m)	
Palmitic Acid (% m/m)	
Palmitoleic Acid (% m/m)	
Heptadecanoic Acid (% m/m)	
Heptadecenoic Acid (% m/m)	
Stearic Acid (% m/m)	
Oleic Acid (% m/m)	
Linoleic Acid (% m/m)	
Linolenic Acid (% m/m)	
Arachidic Acid (% m/m)	
Gadoleic Acid (eicosenoic) (% m/m)	
Behenic Acid (% m/m)	
Lignoceric Acid (% m/m)	
Stigmastadienes (% m/m)	

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

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8. Analytical procedure

Pretreatment and analytical method is not designated in the test. Participating laboratories are to select from the Appendix “**Methods for pre-treatment and instrumental measurement**”, and should indicate the number in the reporting sheet for each target ion.

Methods for pre-treatment and instrumental measurement

(A) Pre-treatment

No.	Method	Abbreviation
1	Non pre-treatment	NON
2	Others	Others

(B) Measurement by Instrument

No.	Instrument	Abbreviation
1	Gas Chromatography	GC
2	Spectrophotometry	S
3	Titration – glass burette	Tit-GB
4	Titration – automatic burette	Tit-AB
5	Others	Others

9. Reporting analytical results

- a) Independent analyses are requested to be carried out twice from sample preparation including weighing. Report the “mean value” of these 2 data (Original data before the calculation of “mean value”, nor statistical values such as “standard deviation” are needed). If you cannot analyze twice (e.g. in case of sample lack), reporting one data is acceptable.
- b) Report a data set of Sample 1. The data is requested to be rounded in 3 significant figures.
- c) A “non-full set result” is acceptable (e.g. In case that your laboratory prefers to report only “waxes”, report only the result of “waxes”).
- d) Method of Reporting
 - i. Participants are requested to indicate method No. indicated in Appendix **“Methods for pre-treatment and instrumental measurement”** for both “Pre-treatment” and “Measurement by Instrument” referring to table (A) and (B), for Sample 1.
 - ii. Participant who selects pretreatment method as “others” should indicate the method name in column “notes”. In the case “others” were selected and “notes” were left blank, UILI will require resubmitting of the report.
 - iii. Use unit specified in the reporting data “Results of Analysis for 12th UILI-ILP”.
 - iv. Data reporting/resubmitting is requested to use format “Result of Analysis for 10th UILI-ILP”. Reporting in different format is unacceptable. In the case non-UILI format is submitted, UILI will require resubmitting of the report.
- e) Send the report/resubmitting report to secretariat@uili.org (Mrs. Melissa M. Fernández Valero, UILI Secretariat) by September 1, 2018. Reports after due date are unacceptable.



10. Issue of the final report by UILI

- a) Final report will be issued on December 1, 2017.
- b) Final report will be issued in electronic media.
- c) Final report includes statistical analysis following standards below.
 - i. z-score: by ISO/IEC 17043 and related standards
 - ii. Quartile Method (robust statistics method): by APLAC "T002"
- d) As far as analytical method is not designated for this test and median value is not always equal to "true value", evaluation by statistic will be inadequate.
- e) A list of participating laboratories will be included in the report with each result followed by "laboratory identification numbers". Relationship between these numbers and laboratory names will not be indicated in the report. Your identification number will be informed in the letter, separated with the report.

11. Others

- a) The test or test results (final report) is not aimed to evaluate the performance of the laboratories or relating personnel by the test organizer nor third person.
- b) Participant will be issued a Certificate by UILI for its participation.
- c) This document is not the final version until sample distribution. We encourage applicants to check the latest version.



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