

EURL Proficiency Test on the Determination of
Chlorinated Paraffins
in Infant formula
2021
EURL-PT-CP_2103-IF

Announcement

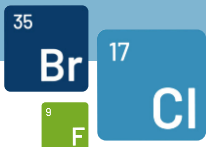
27 May 2021





Summary

test sample	infant formula (sample no. 2103-IF)
analytes of interest	Chlorinated paraffins (short and medium chained)
methods	Any kind of method
participants	All interested laboratories
statistical evaluation	ISO 13528:2015, IUPAC Protocol, combined z-scores
participation fee	Participation fee for OFLs, other official and commercial laboratories
registration	Online registration until 18 June 2021
shipment of samples	29 June 2021
reporting of results	Deadline for reporting of results: 8 October 2021
publication	EURL reserves all rights to publish and present the results of the proficiency test and secondary exercise in scientific journals and/or conferences



1. Introduction

This proficiency test on the determination of chlorinated paraffins (CPs) **in infant formula** is organized by the EURL for Halogenated POPs in Feed and Food to be performed between June and October 2021. The objective is to assess the interlaboratory comparability of results from chlorinated paraffins in a **naturally contaminated food sample**, investigating the influence of different extraction methods on the derived CP amount. A **secondary exercise** is designed to compare derived CP amounts in a **fortified infant formula** with and without reconstitution of the powdered sample. Only the naturally contaminated food sample will be included in the certificate.

Official laboratories, research laboratories and **commercial laboratories** are invited to participate in this proficiency test. First results will be discussed by representatives of EU Commission, NRLs and the EURL at the COM/EURL/NRL workshop in November 2021 in Berlin, Germany or an equivalent online venue.

Participating laboratories will receive the evaluation of the PT and secondary exercise results in preliminary and final reports.

EURL reserves all rights to publish and present the results of the proficiency test and secondary exercise in scientific journals and/or conferences.

2. Test samples

The **PT test sample** is prepared from commercially available (baby) food. The fat content of the test sample is declared by the producer as 20.1 g/100 g dry sample. Each participant will receive about 25 g of dry test sample in a PTFE bottle.

The **secondary exercise sample** is prepared from commercially available (baby) food and was fortified with a commercially available quantification standard mixture. The fat content of this test sample is declared by the producer as 21.2 g/100 g dry sample. Each participant will receive about 40 g of dry test sample in a PTFE bottle.

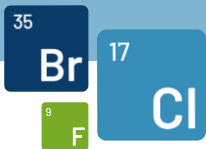
Standard reconstitution of both products uses 14.6 g dry sample with 90 mL water to receive 100 mL ready-to-drink product.

3. Analytes of interest

Participants are asked to determine:

- SCCPs
- MCCPs
- sum of CPs

As sum parameters and if possible giving homologue patterns. They are further asked to report the fat content determined for the samples.



4. Methods

All kinds of detection and quantification methods may be applied. Please indicate if results are reported for the dry sample or for the sample after reconstitution. **For the secondary exercise, reporting results for both types of sample treatment is highly encouraged.**

5. Statistical evaluation of results

If possible, a statistical evaluation of the results of the proficiency test and secondary exercise are performed by the EURL POPs according to:

- ISO 13528:2015, Statistical methods for use in proficiency testing by interlaboratory comparisons, International Organization for Standardization, and the
- International Harmonized Protocol for the Proficiency Testing of Analytical Chemistry Laboratories (IUPAC Technical Report, Pure Appl. Chem., Vol. 78, No. 1, pp-145-196, 2006).

Additionally, the combined z-scores AZ^2 will be calculated according to the EU Reference Laboratories for Pesticides General Protocol for EU Proficiency Tests on Pesticide Residues in Food and Feed, 4th Edition, Revised 09 Jan 2014.

6. Confidentiality

The identity of participating laboratories will be kept confidential.

7. Participation fee

The participation of **NRLs** of EU member states is free of charge.

For **OFLs of EU member states (in cooperation with NRLs)** a participation fee of 150 € applies.

The participation fee for **other official laboratories and commercial laboratories** is 250 €. **Universities** can participate at a reduced rate of 100 € if they are not affiliated with an OFL or NRL (please provide a short written statement or other proof during registration).

Invoices for participation of OFLs and other official and commercial laboratories will be sent before sending of the final report and the certificate of participation. In case of registration for the PT and not reporting of any results a fee of 150 € (reduced fee: 75 €) will be charged.

8. Registration

For registration for this proficiency test, participants are asked to fill out the respective online registration form using the following link.

Registration form

(direct link: https://ec.europa.eu/eusurvey/runner/CP_PT_2103-IF_Registration)

Please register using the online registration form linked above until 18 June 2021.

Registration for this PT and reporting of results/method information is **only** possible using the supplemented online forms. Please contact us directly in case of technical difficulties.

9. Time schedule

Who	What	When
EURL POPs	Announcement	27 May 2021
Participants	Registration	until 18 June 2021
EURL POPs	Shipment of test samples, sending of instructions and lab code	29 June 2021
Participants	Confirmation of receipt of test sample	within 7 days
Participants	Reporting of results	until 8 October 2021
EURL POPs	Evaluation and preparation of a preliminary report	October 2021
EURL/NRLs	Discussion at CWG CP meeting	October/November 2021
EURL/NRLs	Discussion at COM/EURL/NRL workshop	22/23 November 2021
EURL POPs	Sending of final report to all participants	January 2022

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