Announcement

EUPT AO 20 (2025)

European Proficiency Test on Pesticides in Food of Animal Origin and Commodities with High Fat Content

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Pesticides in liquid whole egg

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European Union Reference Laboratory for Pesticides in Food of Animal Origin and Commodities with High Fat Content

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Version 1.1

Changes to version 1.0 (from 08.01.25):

- MRRL Endrin from 0.010 mg/kg to 0.005 mg/kg adjusted
- Time schedule adjusted referring scope selection period

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QCG: Quality Control Group AG: Advisory Group

Introduction

The European Union Reference Laboratory for Pesticides in Food of Animal Origin and Commodities with High Fat Content in Freiburg, Germany, announces its 20th proficiency test (PT), thus enabling again each participating laboratory to assess its analytical capability by comparing its results with the assigned values.

The matrix will be **liquid whole egg**. The Proficiency test item (PT item) will be spiked with selected analytes of interest. They are included in the list of maximum residue levels in Commission Regulation 396/2005 and most of them also in the list of compounds to be analysed in the 2025-27 Multiannual Coordinated Control Programme (MACP, Commission Implementing Regulation (EU) 2023/731 and the Working Document SANCO/12745/2013 rev.15).

The pesticide target list in the annex of this document consists of pesticides from former EUPT lists relevant for the matrix liquid whole egg. Some pesticides are marked to be analysed on voluntary basis. For sufficient scope it is necessary

- to analyse at least 90% of the mandatory analytes from the list in the annex and
- to detect at least 90% of the analytes present in the test item.

The voluntary pesticides will be statistical treated as the mandatory pesticides but their results will not influence the categorising in A and B.

The PT item will be dispatched on Monday, 07 April 2025. Participating laboratories may use any analytical method of their choice. Results are to be reported to the EURL AO within the stipulated deadline. After receipt of the results, the EURL AO will carry out a statistical evaluation of the submitted data and all quantitative laboratory results will be assessed by means of z-scores. Thereafter, a report will be sent to the participating laboratories together with a certificate of participation.

Objectives

The objectives of this proficiency test are

- to assess the inter laboratory consistency of results from the analyses of pesticides in samples of animal origin and
- to provide a quality assurance assessment of the NRLs and the official laboratories within the EU.

Participants

According to Art. 101 of Reg. (EU) 625/207 and Art. 28 (3) of Reg. (EC) 396/2005, participation is mandatory for all laboratories selected as NRL for Pesticides in Food of Animal Origin and Commodities with High Fat Content and for all official laboratories undertaking the analysis of these commodities for the official control on pesticide residues. If your laboratory is obliged to participate and you do not participate in this PT, the Commission expects an explanation for non-participation. Based on the data stored in the Lab-Network Database about the commodity scope and the status of each lab, each laboratory is classified as obliged or not obliged to take part in this PT. This information can also be found on the EUPT-registration page (on the Datapool). Errors should be reported to the corresponding NRL and to eurl-pesticides@cvuafr.bwl.de.

Laboratories are requested to enrol for participation within the EUPT-registration website (**Please log in "EURL-DataPool" using your EURL-DataPool login credentials and click the register "EUPT", then "Register"**) which is going to be used for all EUPTs performed by the EURLs for pesticide residues. The registration period will last from **17 December 2024 to 28 February 2025**. Participants will be able to re-enter the registration website and change/update the entries (e.g. addresses for shipment and invoice, contact data). Deadline for these changes is **24 March 2025.**

Below are the links to the instructions on registration:

- Instruction on registration as an obliged participating laboratory
- Instruction on registration as a participating laboratory on voluntary basis

After the end of the registration deadline, the participants will receive their username and password for DTU EUPT-Webtool (EUPT AO 20) as well as the latest EUPT AO Webtool guideline via e-mail.

IMPORTANT: Before the shipment of the samples, participating laboratories have to select **CAREFULLY** the analytes from the target list being part of their analytical scope via DTU EUPT-Webtool (EUPT AO 20). Deadline for any changes in scope will be before the shipment of samples **(04 April 2025**). After this deadline neither participants nor the EURL is able to change the scope. **The EURL will not accept any changes sent by email.** If scope selection is not performed, all mandatory analytes will be automatically selected.

Proficiency test item

The PT item consists of one unit of beef meat with spiked analytes of interest. The EURL AO produces the PT material at a local school for butchers and spikes the analytes of interest. The PT item will be preserved and the containers will be stored chilled until shipment. PT items will be shipped under ambient conditions. Approx. **50 g** of the PT item will be supplied. Please note that for this PT no blank (non-spiked) sample will be provided!

Analytical parameters and reporting of results

The PT item may contain any analyte from the lists given in the annexes. For each of the analytes a specific minimum required reporting level (MRRL) is given. Selected analytes were added to the

liquid whole egg at relevant concentrations. Single results of each analyte detected shall be reported in **mg/kg**, rounded to three significant figures (e.g. 0.0581, 0.251 or 1.35). Analyte concentrations below the individual reporting levels (RL) shall be considered as "not detected" and no figures shall be typed into the database.

Further instructions for analysis and reporting

Laboratories should

- store the PT item frozen (at -18°C) until analysis,
- after thawing stir/shake carefully the content to make sure that the test item is homogeneous,
- suggestion of EURL: portion the content of the PT item after thawing into subsamples and store unused portions frozen (at least -18°C) for later analysis,
- use your own standard operating procedures for extraction, clean-up and analytical measurement,
- use your own reference standards for identification and quantification,
- provide a detailed method description and any additional information.

Sample receipt should be confirmed in the DTU EUPT-Webtool (EUPT AO 20) when the PT item is dispatched and arrived in your lab. Results should be submitted by using the DTU EUPT-Webtool (EUPT-AO20) before the deadline on **12 May 2025**. There will be **no extension of the deadline**. As laid down in Regulation 2017/625, NRLs are responsible for evaluating and improving their OfL network. For this reason, the EURL AO will confide the laboratory codes of OfLs to their NRLs together with the final report. On request of NRLs the organisers will confide the laboratory codes one month after dispatch of the preliminary report.

By sending the preliminary report to the participants, all participants are requested for a proof reading of the preliminary report. In particular the **NRLs and OFLs** with an individual **z-score ≥ 3** or **false positive/negative results** are requested to **give feedback to EURL-AO** on any actions undertaken to find out the reasons for poor performance. For reporting necessary corrections, please use the excel-sheet that will be attached to the email with the preliminary report.

Statistical evaluation of results

EUPT AO 20 is one of four proficiency tests organised by the EURLs for pesticide residues as part of their work programmes for 2025. Thus, the performance and the evaluation of EUPT AO 20 will be similar to those that will be used in the other EUPTs.

The performance of each laboratory will be evaluated and presented in an anonymous format in a report written after the final evaluation. The organisers will calculate the mean, robust mean, median and standard deviation for each spiked analyte. The procedure will follow the General Protocol for EU proficiency Tests for Pesticide Residues in Food and Feed and the IUPAC/ISO/AOAC

International Harmonised Protocol for the Proficiency Testing of Chemical Analytical Laboratories (see also ISO 13528). The evaluation will be performed in close cooperation with the Scientific Committee for EUPTs. First, pre-assigned values will be calculated taking into account the results of all participants. At the meeting of the Scientific Committee for EUPTs (June 2025) the pre-assigned values will be discussed. The pre-assigned values will be confirmed or recalculated after omitting results of laboratories according to the suggestions of the Scientific Committee for EUPTs.

Time schedule

Actor	Activity	Date
EURL	Preliminary announcement matrix liquid whole egg at EURL-NRL Workshop 2024 in Freiburg	08 – 09 October 2024
EURL	First information supplied to laboratories and call for participation (announcement)	08 January 2025
Participant	**Registration** via EUPT website	**17 December 2024 – 28 February 2025**
Participant	**Scope selection** via EUPT webtool	**24 March – 04 April 2025**
Participant	Proof of shipment address in EURL-Datapool	Ending 24 March 2025
EURL	**Dispatch of test material**	**07 April 2025**
Participant	Confirmation of test material receipt	08 - 14 April 2025
Participant	**Deadline for reporting of test results**	**12 May 2025***
Participant	Deadline for reporting of additional method information (no changes of reported results possible)	19 May 2025
EURL	Deadline for preliminary report	07 July 2025
EURL	Dispatch of the final report as pdf-file	Approx. end of 2025

* Please make sure to report your results on time as there will be **no extension of the deadline.**

Participation fee

There is a **fee of EUR 200.00** for shipping and handling to participants within the European Union and EFTA countries (**including NRLs**). Fees for participants from **other countries** are **EUR 400.00**. An invoice will be sent by e-mail when the samples will be dispatched.

Please check the website for further details:

https://www.eurl-pesticides.eu/docs/public/tmplt_article.asp?LabID=300&CntID=1293&Theme_ID=1&Pdf=False&Lang=EN

Confidentiality

In each EUPT, the participating laboratories are given a unique code, initially only known to themselves and the organisers. In the final EUPT report, the list of participating laboratories will not be linked to their laboratory codes. The organisers are allowed to provide NRLs with the EUPT AO 20 codes of all OfLs in their respective networks. The organisers further reserve the right to share EUPT results and codes with other EURLs for pesticides residues.

Contact information EURL AO

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Annex 1

EUPT-AO20 Pesticide target list of mandatory analytes

Table A1: List of 79 **mandatory** analytes and minimum required reporting levels (MRRL) in EUPT AO 20 (PT item liquid whole egg). Results shall be rounded to three significant figures (e.g. 0.0581, 0.251 or 1.35)

Analyte	MRRL (mg/kg)	Analyte	MRRL (mg/kg)
Aldrin	0.010	Famoxadone	0.010
Alpha-Cypermethrin (aka alphamethrin)	0.010	Fenpropidin	0.010
Azinphos-methyl	0.010	Fenpropimorph	0.010
Bifenthrin	0.010	Fenpyrazamine	0.010
Bixafen	0.010	Fenthion-Oxon	0.010
Boscalid	0.010	Fenthion-Oxonsulfone	0.010
Carbendazim	0.010	Fenthion-Oxonsulfoxide	0.010
Chlordane, cis-	0.005	Fenthion-Sulfone	0.010
Chlordane, trans-	0.005	Fenthion-Sulfoxide	0.010
Chlorfevinphos	0.010	Fenvalerate/Esfenvalerate (RR/SS/RS/SR)	0.010
Chlorpropham	0.010	Fipronil	0.005
Chlorpyrifos	0.010	Fipronil-Sulfone	0.005
Chlorpyrifos-Methyl	0.010	Fluquinconazole	0.010
cis-Heptachlor epoxide	0.010	Flusilazole	0.010
Cyfluthrin (sum)	0.010	HCH, alpha-	0.010
Cypermethrin (sum)	0.010	HCH, beta-	0.010
Cyproconazole	0.010	HCH, gamma-	0.010
DDD, p,p-	0.010	Heptachlor	0.010
DDE, p,p-	0.010	Hexachlorobenzene	0.005
DDT, o,p-	0.010	Indoxacarb	0.010
DDT, p,p-	0.010	Lambda-Cyhalothrin	0.010
Deltamethrin	0.010	Malathion	0.010
Diazinon	0.010	Metaflumizone	0.010
Dieldrin	0.010	Methoxychlor	0.010
Endosulfan, alpha-	0.010	Nitrofen	0.010
Endosulfan, beta-	0.010	Oxychlordane	0.005
Endosulfansulfate	0.010	Parathion	0.010
Endrin	0.005	Parathion-methyl	0.010
Epoxiconazole	0.010	Pendimethalin	0.010
Etofenprox	0.010	Penflufen	0.010

Analyte	MRRL (mg/kg)
Penthiopyrad	0.010
Permethrin (sum)	0.010
Phosmet	0.010
Phoxim	0.005
Pirimiphos-Methyl	0.005
Prochloraz	0.010
Profenofos	0.010
Prothioconazole-Desthio	0.010
Pyrazophos	0.010
Quintozene	0.010
Resmethrin, (cis; trans)	0.010
Sulfoxaflor	0.010
Tau-Fluvalinate	0.010
Tebuconazole	0.010
Tecnazene	0.010
Tetraconazole	0.010
Thiacloprid	0.010
trans-Heptachlor epoxide	0.010
Vinclozolin	0.010

Annex 2

EUPT-AO20 Pesticide target list of voluntary analytes

Table A2: List of 26 **voluntary** analytes and minimum required reporting levels (MRRL) in EUPT AO 20 (PT item liquid whole egg). Results shall be rounded to three significant figures (e.g. 0.0581, 0.251 or 1.35)

Analyte	MRRL (mg/kg)	Analyte	MRRL (mg/kg)
Benzalkonium chloride n-C12	0.010	Molinate	0.010
Benzalkonium chloride n-C14	0.010	Oxadiargyl	0.010
Benzovindiflupyr	0.010	Oxasulfuron	0.010
Bixafen, Desmethyl-	0.010	Oxyfluorfen	0.010
Boscalid-5-hydroxy (M510F01)	0.010	Picolinafen	0.010
BTS 44595	0.010	Propaquizafop	0.010
BTS 44596	0.010	Pyraclostrobin	0.010
Didecyldimethylammonium chloride n-C10	0.010	Quinoclamine	0.010
Fluopyram	0.010	Spinosad	0.010
Fluopyram-Benzamide (M25)	0.010	Spinosyn A	0.010
Hydroxy-Tebuconazole	0.010	Spinosyn D	0.010
Mefentrifluconazole	0.010	Spiroxamine	0.010
Metconazole	0.010	Thiophanate-Methyl	0.010

(1) Results for Spinosad shall always be reported, either if individual standards for Spinosyn A and D or a mixture of Spinosyn A and D are used for quantification.

(2) Results for Spinosyn A or D shall be reported, if the individual standards were used for quantification.