

SPECIFIC PROTOCOL

for the EU Proficiency Test for Pesticide Residues in Cereals/Feeding stuff using Multi Residue Methods, EUPT-CF17 (2023)

(last updated: 20 January 2023)

Introduction

This protocol is complementary to the [General Protocol for EU Proficiency Tests for Pesticide Residues in Food and Feed](#) (9th Edition). The current proficiency test covers pesticides that are determined by Multi Residue Methods. This EUPT is to be performed by all National Reference Laboratories for Cereals and/or Feeding stuffs (NRL-CFs) as well as by all official EU laboratories (OfLs) responsible for official pesticide residue controls on feeding stuff, as far as their scope overlaps with that of the EUPT-CF17.

Test Item (Test Material)

This proficiency test concerns the analysis of pesticide residues in barley kernels. The barley was grown in Denmark and pesticides were applied in the field.

The Organiser, will check the Test Items for sufficient homogeneity and for stability at conditions reproducing sample shipment and storage during the duration of the test, according to ISO 13528, Annex B. All these tests will be conducted by the organiser, the EURL-CF which is (ISO 17025 accredited).

Analytical Parameters

The Test Item contains several pesticides from the **Target Pesticides List**.

Laboratories must report their results as stated in the Target Pesticides List.

Amount of Test Item

The participants will receive:

- approximately 100 g of wheat kernels Test Item with incurred and spiked pesticides

Blank material will not be distributed to the participants.

Shipment of Test Items

The Test Items are planned to be shipped on 6 February 2023.

Test Items will be shipped frozen and packed in thermo-boxes together with a freezer block. The organiser will aim to ensure that all participating laboratories will receive their shipments on the same day. Prior to shipment a reminder will be sent to the participating laboratories by e-mail.

Laboratories must make their own arrangements for the receipt of the package. They should inform the Organiser of any public holidays in their country/city during the week of the shipment, and must make the necessary arrangements to receive the shipment, even if the laboratory is closed.

Instructions on Test Item Handling

Once received, the Test Items should be stored deep-frozen (at -18°C or below) before analysis to avoid any possible deterioration/spoilage and to minimize pesticide losses. The test Item should be milled before analysis. After milling, mix the flour thoroughly, before taking the analytical portion(s).

All participants should use their own routine standard operating procedures for milling, extraction, clean-up and analytical measurement and their own reference standards for identification and quantification purposes.

The homogeneity test is conducted using 5 g of milled Test Item in all cases. As sub-sampling variability increases with decreasing analytical portion size, sufficient homogeneity can only be guaranteed where participants employ sample portions that are equal to or larger than the ones stated above.

EUPT Webtool and Deadlines

To select pesticide scope and report results and method information, the participants should log in to the **EUPT Webtool** using the username send by email, the password can be retrieved via <https://guest.dtu.dk/Sites/GuestLogin/RetrievePassword.aspx> using your email address or your username. Please, update the password every year.

Selection/deselection of scope: The analytical scope must be selected prior to the shipment of the samples. This is done via the **EUPT Webtool**. The scope selection subpage will be open from 22 January to 6 March 2023. As default all mandatory pesticides are preselected.

Results and method submission: The **EUPT Webtool** will be accessible from 7 February 2023 for sample receipt acknowledgement and submission results and method information.

The deadline for submission is 15 March 2023 at 23.00 CET.

IMPORTANT: After the final submission it will NOT be possible to edit the results. Participants will receive an email confirming the submission of their results. Attached to the email will be an excel file with all their submitted data and a pdf of the pesticide and concentration submitted.

Test Item Receipt and Acceptance: Once the laboratory has received the Test Items it must report to the organiser, via the **EUPT Webtool**, the date of receipt, and its acceptance. If the laboratory does not respond by 10 February 2023 at 12.00 CET, the Organiser will assume that the Test Items have been received and accepted.

If participants have not received the Test Items by **the 10 February 2023 at noon**, they must inform the Organiser immediately by e-mail to eurl-cf@food.dtu.dk.

Reporting Quantitative Results:

Results should not be reported where a pesticide

- a) was not detected,
- b) was detected below the RL (Reporting Limit) of the laboratory, or

Significant Figures:

Residue levels <0.010 mg/kg;

- to be expressed by two significant figures (e.g. 0.0058 mg/kg).

Residue levels ≥ 0.010 mg/kg;

- to be expressed by three significant figures, e.g. 0.156, 1.64, 10.3 mg/kg.

Reporting Analytical method: The laboratory must to report details of the analytical methods they used. If not it will not be possible to submit results.

Reporting of supplementary information in case of false negative results

In case of false negative results, the affected laboratories will be asked to provide details on the methodology used after the deadline for result submission. This has also to be done by accessing EUPT Webtool. Deadline for this is 11 May 2022.

Follow-up actions

In accordance with Art. 32 1b of Regulation (EC) No 2017/625, underperformance of any NRL-CF in comparative testing will be followed by EURL-CF.

Documents

All documents related to EUPT-CF17 can be found on EUPT-CF15 website.

https://www.eurl-pesticides.eu/docs/public/tmpl_article.asp?LabID=400&CntID=1231&Theme_ID=1&Pdf=False&Lang=EN

Calendar

Activity	Dates
Announcement Calendar Target Pesticide List	November 2022
EUPT-Registration Website open	December 2022
Deadline for registration	9 January 2023
Specific Protocol published	23 January 2023
Website for selecting pesticide scope open	23 January 2023
Website for selecting pesticide scope closed	6 February 2023
Distribution of Test items	6 February 2023
Deadline for receipt and acceptance of Test Materials	within 24 hr on receipt
Deadline for Result Submission	6 March 2023 at 23.00 CET
Deadline for submission of additional method information for false negative results	15 March 2023 at 24.00 CET
Preliminary Report (only compilation of results) published	15 May 2023
Final Report published	December 2023

Participation Fees

For participating laboratories from the EU, EU-candidate states and EFTA states the participation fee will be:

- 250 €

The participation fees for laboratories from third countries will be:

- 400 €

For further information, visit www.eurl-pesticides.eu.

Delays in Payment

The participants will receive an invoice from DTU. The terms of payment are 30 days net. After this deadline reminders will be sent. From the second reminder onwards an administration fee of DKK 100.00 excluding VAT (ca. 13 €) will be charged per reminder.

If the participant ask DTU to issue a new invoice because additional/new information are needed on the invoice, or just want a copy of the original invoice, that may add additional cost due to the administrative workload.

Any questions concerning invoices must be directed to Mikkel Lau Mikkelsen, mlami@dtu.dk at the financial department of DTU.

Contact information:

DTU Food
National Food Institute



Mette Erecius Poulsen

Head of EURL Cereals and Feeding stuff

National Food Institute
Technical University of Denmark
Kemitorvet, Building 202
DK-2800 Lyngby
Phone: +45-3588-7463
E-Mail: eurl-cf@food.dtu.dk
<http://www.eurl-pesticides.eu>

Organising Team:

Elena Hakme, Chemist	EURL for Cereals and Feeding stuff
Ederina Ninga, Chemist	EURL for Cereals and Feeding stuff
Ban M. Kadhum, Technician	EURL for Cereals and Feeding stuff
Susanne Pless, Technician	EURL for Cereals and Feeding stuff

Quality Control Group:

Dr. Antonio Valverde	University of Almería, Spain
Dr. Paula Medina	European Food Safety Agency, Italy

Advisory Group

Prof. Amadeo R. Fernández-Alba	University of Almeria, Spain
Dr. Carmen Ferrer Amate	University of Almeria, Spain
Dr. André de Kok	Former Wageningen Food Safety Research, Wageningen, The Netherlands
Mr. Ralf Lippold	Chemisches und Veterinäruntersuchungsamt (CVUA) Freiburg, Germany
Dr. Michelangelo Anastassiades	Chemisches und Veterinäruntersuchungsamt (CVUA) Stuttgart, Germany
Dr. Hermann Unterluggauer	AGES Competence Center for Residues of Plant Protection Products, Innsbruck, Austria
Dr. Tuija Pihlström	National Food Administration, Uppsala, Sweden
Dr. Magnus Jezussek	Bavarian Authority of Health and Food Safety, Erlangen, Germany
Mr. Finbarr o'Regan	Pesticide Control Laboratory, Celbridge, Ireland
Dr. Patrizia Pelosi	Istituto Superiore di Sanità, Roma, Italy
Dr. Hans Mol	Wageningen Food Safety Research, Wageningen, The Netherlands
Mr. Bjoern Hardenbusch	Chemisches und Veterinäruntersuchungsamt (CVUA) Freiburg, Germany
Mr. Radim Stepan	Czech Agriculture and Food Inspection Authority