

# **EUPT-FV-SC08 SPECIFIC PROTOCOL**

## **European Union Proficiency Test for Pesticide Residues in ground green tea (2024)**

### **Introduction**

This protocol is complementary to the General Protocol of EU Proficiency Tests (EUPTs) for Pesticide Residues in Food and Feed (11<sup>th</sup> Edition). This Proficiency Test is organised by the EURL for Pesticide Residues in Fruit and Vegetables covering Multiresidue Methods (MRM) of analysis.

### **Test item**

This proficiency test is based on the analysis of **green tea** containing both incurred and spiked pesticide residues. The test item will consist of **ground green tea**.

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-FV. No blank material will be provided.

### **Steps to follow**

This Proficiency Test will be made up of the following steps:

1. **Participation in this proficiency test remains on a voluntary basis.** To participate, each laboratory must complete the Application Form, uploaded in the EURL-FV webpage, before the deadline stipulated on the Calendar. The participants will also receive the Target Pesticide List, containing the Minimum Required Reporting Limits (MRRs). Given the limited material available, the registration forms will be accepted on a first come first served basis.
2. Laboratories will then receive an e-mail confirming their participation in this exercise and assigning them each a Laboratory Code.
3. The sample delivery will be 250 euros for EU national reference laboratories and EU official laboratories for pesticide residues and 400 euros for the rest of laboratories.

4. The sample will be delivered to the participant laboratories on November 18<sup>th</sup>, 2024. The Excel file to report the results will be uploaded to the EURL-FV webpage.
5. The deadline for submitting the results of this proficiency test is 18<sup>th</sup> December 2024.
6. The Organiser will evaluate the results at the end of the proficiency test, once the deadline for the receipt of results has passed. The Organiser will upload an electronic version onto the EURL-FV website and will send the electronic copy of the Final Report to each participant laboratory. This report will include information regarding the design of the test, the homogeneity and stability results, a statistical evaluation of the participant's results as well as graphical displays of the results and any conclusions. Further relevant information considered to be of value may also be included.

#### **Amount of Test Item**

Participants will receive:

- Approximately 30 g of ground green tea containing pesticide residues.

No blank material will be provided.

#### **Shipment of Test item**

The shipment of the test item will be on 18<sup>th</sup> November 2024, and will be made at room temperature. The Organiser will try to ensure that all the packages arrive on the same day at each laboratory. An information message will be sent out by e-mail as regards shipment. Laboratories must make their own arrangements for the receipt of the package. They must inform the Organiser of any public holidays in their country/city during the delivery period given in the calendar, as well as making the necessary arrangements for receiving the shipment, even if the laboratory is closed.

#### **Advice on Test item Handling**

Once received, the test item should be stored deeply frozen (-18°C or less) prior to analysis thus avoiding any possible deterioration/spoilage. The test item should be mixed thoroughly before taking the analytical portion(s).

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

### **Test item Receipt**

If any laboratory has not received the test item by 22<sup>nd</sup> November 2024, they must inform the Organiser by e-mail ([cferrer@ual.es](mailto:cferrer@ual.es))

### **Submission of results:**

Once the laboratory has analysed the test item and is ready to submit their data, they must enter their results in the Excel file provided by the Organisers and send it to the following e-mail address: [cferrer@ual.es](mailto:cferrer@ual.es).

All analyte concentrations must be expressed in mg/kg together with the associated recovery expressed as a percentage.

The number of significant figures should be:

- Two, for residue levels <0.010 mg/kg (e.g. 0.0086 mg/kg).
- Three, for residue levels ≥ 0.010 mg/kg (e.g. 0.0673, 0.245, 1.32, 10.1 mg/kg).

Results should not be reported where a pesticide was not detected or was detected below the laboratory's LOQ. In both cases, this will be considered as 'ND' (Not Detected). If a pesticide was not sought, it will be considered as 'NA' (Not Analysed). The actual results/residue levels measured must be reported as numbers.

Further instructions on how to fill in the Excel file will be provided in the same file.

### **False Negatives**

After the receipt of results, participant laboratories that have reported that they sought a pesticide present in the test item but did not find it (false negative) will be asked via e-mail about the analytical method used to determine that specific pesticide.

**Calendar**

ACTIVITY	DATE
Registration period	8 <sup>th</sup> October - 28 <sup>th</sup> October 2024
Specific Protocol published on the Web site.	4 <sup>th</sup> November 2024 at the latest
Sample distribution.	18 <sup>th</sup> November 2024
Deadline for receiving results	18 <sup>th</sup> December 2024
Preliminary Report: (containing preliminary assigned values and z scores)	January 2025
Final Report distributed to the Laboratories.	September 2025

**Cost of test item shipment.**

The sample delivery will be **250 € for EU National Reference Laboratories and EU Official Laboratories and 400 € for the rest of laboratories.** Regarding payment procedures, each laboratory can specify their details and invoice requests when applying for the test.

**Please, do not pay for this EUPT until we send you the invoice.**

**Remember to include your Laboratory Code in the subject of the bank transfer.**

Payment details are as follows:

**BANK NAME: CAJAMAR - Caja Rural Sociedad Corporativa de Crédito**

**BANK ACCOUNT HOLDER: Universidad de Almeria**

**BANK ADDRESS: Office Number 990. Universidad de Almeria. Spain**

**IBAN: ES0730580130172731005000**

**SWIFT: CCRIES2A**

**REFERENCE: Invoice No. or Lab Code**

### Contact information

The official organising group details are as follows:

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### Organising team (e-mails and phone numbers):

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### Scientific Committee

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QCG: Quality Control Group  
 AG: Advisory Group