



EUROPEAN HEALTH AND DIGITAL EXECUTIVE
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Single Market Programme (SMP Food)

SMP-FOOD-2023-EURL-EURC-AG-IBA
Activities of the EU reference laboratories and
EU reference centres in 2023-2024

SUBMISSION FORM: DESCRIPTION OF THE ACTION
(Annex 1 – Description of the action (part B))

SMP-FOOD-2023-EURL-EURC-AG-IBA

Activities of the EU reference laboratories and EU reference centres in 2023-2024

Applicant shall provide information on each question contained in the Form. The information filled in the Form, shall be clear, concise, consistent and complete.

For questions on the information requested in this Form, please contact: please contact: HADEA-EURL@ec.europa.eu.

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Applicant - COORDINATOR (Name of EURL)	EU Reference Laboratory for Pesticides requiring Single Residue Methods located at the CVUA Stuttgart Schaflandstr. 3/2 70736 Fellbach Germany Phone: #49-711-1124
Topic	Pesticides (requiring Single Residue Methods)
Implementation period	1/1/2023 – 31/12/2024

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1. LIST OF ABBREVIATIONS AND KEY WORDS

AO	Food of Animal Origin (related to the EURL-AO)
AQC-Document	DG-SANTE document on “Analytical Quality Control and Method Validation Procedures for Pesticide Residues Analysis in Food and Feed”
CF	Cereals and Feeding Stuff (related to the EURL-CF)
DB	Database
DTC	Dithiocarbamate fungicides
EUPT	European Union Proficiency Test
EURL	European Reference Laboratory
FV	Fruits and vegetables (related to the EURL-FV)
H1 / H2	H1 stands for the first half of a calendar year and H2 for the second half
Horiz. Activ.	Horizontal Activity to be conducted by the EURL-SRM on behalf of and for the benefit of all four EURLs of the pesticides cluster
ILIS	Isotopically-labelled internal standard
LOD	Limit of detection
LOQ	Limit of quantitation
MACP	Multi-annual Control Program for Pesticides (related to e.g. Reg. (EU) 2022/741, Reg. (EU) 2023/731,...)
MFL	Method Finder List
MRL	Maximum Residue Limit (according to Reg. (EC) No. 396/2005)
MRM	Multi-Residue Method
NCP-WD	Working document for the planning of national control programs of EU member states
NRL	National Reference Laboratory
OfL	Official laboratory
PT	Proficiency test
Q1/Q2/Q3/Q4	Q1 stands for the first quarter (the first trimester) of the year, Q2 for the second and so on.
SRM	Single Residue Method (typically referring to methods covering pesticides not amenable to MRMs (see above))
TPL	Target Pesticide List (concerning EUPTs)
WD-NCP	Working document on pesticides to be considered for inclusion in the national control programmes (SANCO/12745/2013 in its current revision)

2. INTRODUCTION

Regulation (EU) 625/2017 Art 94(2):

European Union reference laboratories designated in accordance with Article 93(1) shall be responsible for the following tasks insofar as they are included in the reference laboratories’ annual or multiannual work programmes that have been established in conformity with the objectives and priorities of the relevant work programmes adopted by the Commission in accordance with Article 16 of Regulation (EU) No 2021/690:

(taking into account Art 147 of (EU) 625/2017)

3. ACTIVITIES

3.1. Work Package 1 - METHODS

Objectives: TO ENSURE AVAILABILITY AND USE OF HIGH QUALITY METHODS AND TO ENSURE HIGH QUALITY PERFORMANCE BY NRLs

activities related to Regulation (EU) 2017/625:

- *Art. 94.2.a Providing national reference laboratories with details and guidance on the methods of laboratory analysis, testing or diagnosis, including reference methods.*
- *Art. 94.2.b Providing reference materials to national reference laboratories*
- *Art. 94.2.c Coordinating the application by the national reference laboratories and, if necessary, by other official laboratories of the methods referred to in point (a), in particular, by organising regular inter-laboratory comparative testing or proficiency tests and by ensuring appropriate follow-up of such comparative testing or proficiency tests in accordance, where available, with internationally accepted protocols, and informing the Commission and the Member States of the results and follow-up to the inter-laboratory comparative testing or proficiency tests.*
- *Art. 94.2.l Where relevant for their area of competence, cooperate among themselves and with the Commission, as appropriate, to develop methods of analysis, testing or diagnosis of high standards.*

Sub-activity 3.1.1 **Provide NRLs with details and guidance on the methods of laboratory analysis, testing or diagnosis, including reference methods**

Objectives: Provide visitors of the joint portal website and the specific EURL-SRM website with up-to-date information of interest and in particular access to analytical methods.

Description: In 2023 and 2024, the joint portal-website and the individual web-site of the EURL-SRM will be gradually filled with new information (e.g. method protocols, workshop reports, EUPT-reports etc.). Existing links, overview-sites as well as documents will be updated. Where necessary, new pages or features will be gradually added considering the needs and suggestions by DG-SANTE, the EURLs and the lab-Network.

Expected Output: New or updated websites under www.eurl-pesticides.eu or documents linked within these websites. Exemplary sites/documents to be created or updated by the EURL-SRM in 2023 and in 2024: Joint Annual EUPT-Calendar (Horiz. Activ.); Joint Annual Workshop Calendar (Horiz. Activ.); Joint site on Control Programs (Horiz. Activ.); Individual EUPT-SRM Website for each year, 2023 and 2024; List of Analytical Observations (concerning SRM compounds); List of Residue Observations (concerning SRM compounds); List of Methods (concerning SRM compounds); List of sources of analytical standards (Horiz. Activ.).

Duration: throughout 2023 and 2024

Sub-activity 3.1.2 **Follow up on requests from NRLs for providing analytical standards**

Objectives: Facilitate the expansion of the analytical scope of NRLs by providing them with analytical standards.

Description: Where NRLs have difficulties expanding their scope due to the non-availability in the market of analytical standards of pesticides and metabolites or of isotopically labelled internal standards (ILISs), the EURL-SRM will be offering, upon request, stock or working solutions, so far these are available in sufficient amounts. The synthesis of ILISs for chlorate and phosphonic acid and their distribution to labs will be continued with NRLs and OfLs being served.

In addition the EURL-SRM will be updating as required the list of providers of analytical standards.

Expected Output: Distribution of analytical standards to NRLs and OfLs where this is requested and feasible. List of providers of analytical standards (see 3.1.1). No specific deliverables can be defined in advance as any activities within this context will be conducted as required. An overview would be given in the final report.

Duration: Throughout 2023 and 2024.

Sub-activity 3.1.3 **Analysis of official samples**

Objectives: Analyse samples in case of disputes

Description: The EURL-SRM will conduct any analyses this concerning requested by DG-SANTE and will ask DG-SANTE for approval of any activity this regarding requested by member states. Should this activity require extensive resources and adjustment of the work-program (or additional budget) will be requested.

Expected Output: Results of sample analyses if required and only after consultation with DG-SANTE. No specific deliverables can be defined in advance as any activities within this context will be conducted as required. An overview would be given in the final report.

Duration: Unpredictable

Sub-activity 3.1.4 **Organisation of proficiency tests and follow-up on the results**

EU Proficiency Tests EUPT-SRM18 (in 2023) and EUPT-SRM19 (in 2024)

Objectives: Give labs the possibility to check and demonstrate their proficiency when applying routine or newly established methods for the analysis of pesticide residues in a matrix that is still to be defined. Help labs localize sources of errors and provide assistance for eliminating these errors.

Description: The commodity for EUPT-SRM18 will be honey, which matches with the EURL-SRM-project for the analysis of residues of pesticides and metabolites in honey-samples. The commodity for the EUPT-SRM19 is still to be defined following consultations with the EUPT-Scientific Committee. In both the above PTs, the analytes to be targeted will be carefully selected in cooperation with the EUPT-Scientific Committee, considering various aspects, such as the scope of the MACP and the NCP-WD, the relevance of pesticides to the commodity (and commodity group), the capabilities of the labs and other analytical aspects. Preliminary experiments will be conducted to choose the most suitable way of preparing the PT-material. The EUPT-material will be prepared and tested. Due to the need to

use a number of different methodologies to cover SRM-analytes the quality tests of the PT-material require extended experiments (e.g. in 2022 EUPT-SRM 17 for stability and homogeneity alone, more than 1500 injections in different instruments were needed). The material will then be portioned and distributed to the participating labs. The data-collection tool will be adjusted to the EUPT as regards the methodology data requested by the labs. The results received will be evaluated and the preliminary as well as the final report will be prepared and distributed, always in consultation with the EUPT-Scientific Committee.

Expected Output: Preparation and testing the EUPT materials. Distribution of material to participating labs. Evaluation of results and distribution of the respective preliminary report within ~3 weeks after the deadline of the PT data submission and of the respective final EUPT-report and the participation certificates.

Duration: For the EUPT-SRM17 (in 2022, see in the previous Working Programme 2021-2022), the final report and certificates are available online for all participants throughout H1 2023.

For the EUPT-SRM18 (in 2023), preparation of documents, samples and shipment, drafting and distribution of the preliminary report within H1 2023. The final Report and certificates are available online for all participants throughout H1 2024.

For the EUPT-SRM19 (in 2024), preparation of documents, samples and shipment, drafting and distribution of the preliminary report within H1 2024. The final Report and certificates are available online for all participants throughout H1 2025.

Coordinate the update of data regarding the official status and commodity scope of 57 NRLs and 254 OfLs within the DataPool (Horiz. Activ.)

Objectives: Update information on status and commodity scope of OfLs/NRLs and herewith define which laboratories are obliged to participate in EUPTs organized by all EURLs in 2023 and 2024. Ensure smooth and uniform registration of laboratories in those EUPTs. Enable export of EUPT-participant's information in the format required by the EUPT data submission tool run by the EURL-CF. Provide assistance to labs requiring help in updating lab-specific data or registering for EUPT participation as well as to all NRLs requiring assistance in administering the data of their OfL network.

Description: The EURL-SRM will ask OfLs / NRLs to access their lab area within the EURL DataPool and update the information concerning the commodity types covered within the framework of official controls. In parallel, NRLs will be asked to confirm the information entered by the labs within their network. Based on the (confirmed) commodity-scope of each OfL and additional comments provided by the labs, the EURL-SRM will define, for all EUPTs organized by the EURLs in 2023 and in 2024, the participation status (obliged/not obliged). This information will be entered into the EURL-DataPool and will be accessible to OfLs/NRLs when entering the EUPT Registration Tool (www.eupt-registration.eu). Labs will be asked to register for the EUPTs they wish to participate. Labs deciding not to participate in a specific EUPT for which they are obliged to participate, will be asked to provide explanations. NRLs will be asked to cross-check the registrations of their network's labs and to contact OfLs having failed to register. The four EURLs will be asked to download, from the EURL DataPool, the list of labs having registered, and submit it to the programmer of the EUPT data submission tool run by the EURL-CF.

Expected Output: Update of lab status and commodity scope of 57 NRLs and 254 OfLs within the EURL DataPool (Q1 2023 and Q1 2024) and on the participation status of all OfLs / NRLs (obliged/not obliged). Registration of labs for participation in EUPTs and through EUPT Registration Tool and

submission of participants' list to the administrators of the EUPT data submission tool run by the EURL-CF.

Duration: For the EUPTs in 2023, the updating of the lab-status started in December 2022 and ended in January 2023. For the EUPTs in 2024, this activity will start in December 2023 and continue in January 2024. The on-line EUPT-Registration for the four EUPTs in 2023 took place between January and April 2023. Many laboratories had to be assisted via e-mail communication during this period. The EUPT-Registration for 2024 will take place between January and April 2024.

For the EUPT-SRM18 (in 2023) the updated information was submitted to the administrators of the data submission tool (run by the EURL-CF) in April 2023. In 2024 this activity will also take place in H1, but the month is not yet fixed, as it depends on the period during which the EUPT-SRM19 will take place, which will be defined during a meeting of the EUPT-Scientific Committee in mid-2023.

Import of EUPT-results and -certificates from 2022 and 2023 into the EUPT-Archive (Horiz. Activ.)

Objectives: Import of results from EUPT-FV24, -CF16, -AO17 and -SRM17, each conducted in 2022, as well as from EUPT-FV25, -CF17, -AO18 and -SRM18, each will be conducted in 2023, into the EUPT-Archive. Upload of EUPT-certificates of each participant into the EUPT-Archive. Enable OfLs to update their Measurement Uncertainty calculations using the MU-Tool within the EURL-DataPool.

Description: The results of the EUPTs organized in 2022 and 2023 will be collected from the individual EURLs and formatted, if necessary, to be imported into the EUPT-Archive DB, which is implemented within the EURL DataPool. In order to be able to import the EUPT-certificates in an efficient way, support is needed from the other EURLs (e.g. re-naming of the EUPT-certificate pdf-files).

Expected Output: EUPT-results and –certificates from 2022 and 2023 are imported in the EUPT-Archive within the EURL-Datapool.

Duration: EUPTs conducted in 2022: Q4 2023; EUPTs conducted in 2023: Q4 2024

EUPT-Evaluation-Views

(Task shifted to WP 25-27, see Amendments p. 27)

Objectives: Elaboration of different EUPT-evaluation views for EURLs/COM, NRLs and OfLs.

Background: The EUPT-Archive is a valuable data collection for assessing performance, scope and participation of OfLs in EUPTs. This information reflects the quality, accuracy and comparability of analytical data generated within official controls in EU-countries and is of interest to OfLs, NRLs, EURLs and the COM.

Description: It is intended to gradually create within the EURL DataPool new detailed and synoptical views (graphs and/or tables), showing the long-term performance, participation and scope of OfLs in EUPTs over the years. EURL/COM-members should be granted access to all data, NRLs to data of OfLs within their network, and OfLs to own data only. Certain parameters (e.g. year of PT, PT-organizer, PT name, pesticide name, pesticide group, matrix name and matrix-group) may be used as filters to allow narrowing-down the pool of data to be processed in a query. For NRLs and EURLs, the names of the laboratories within their network will also be a filter criterion, with EURLs having additionally the possibility to filter data by country. In overview tables, the number and percentage of targeted analytes as well as of the acceptable, questionable and unacceptable z-scores will be calculated, with

false negative and false positive results being highlighted. For ranking purposes, combined z-scores will be calculated using the individual z-scores. This tool should allow the evaluation PT-performances of labs and countries in retrospect.

Expected Output: Complementing the DataPool with missing parameters, introduction of certain evaluations and on-line views (in a first stage accessible only to EURL-members for testing purposes), see also under 3.2.1.

Duration: 2023-2024

Sub-activity 3.1.5 **Cooperation and meetings with other EURLs**

Objectives: Cooperation and meetings with other EURLs for coordination purposes

Description: Inter-EURL-meetings, in some cases in presence of DG-SANTE representatives, will be carried out with the aim to discuss, plan, coordinate or evaluate EURL-activities, such as the preparation of work programs, the drafting of coordinated reports and opinions to support DG-SANTE and EFSA (e.g. in the re-evaluation of pesticides according to Art. 12), the drafting coordinated answers on specific questions by DG-SANTE, the organization of workshops and EUPTs, the upgrading and updating of on-line services (e.g. EURLs webpage, EURL-DataPool, and EUPT-Webtool), the revision of technical documents of DG-SANTE (incl. SANTE/11312/2021) and Codex Alimentarius. This activity may involve one or several missions of EURL-SRM staff. Date and place of these events will be decided along the way as needed. Various meetings will be held via phone, on-line or in person when needed and possible.

Expected Output: Drafting of coordinated reports, decisions for future work. No specific deliverables can be defined in advance as any activities within this context will be conducted as required. An overview would be given in the final report.

Duration: To be decided later following consultations with the other EURLs and/or DG-SANTE, throughout 2023 and 2024

Sub-activity 3.1.6 **Development and validation of analytical methods**

Further development of the QuPPe method.

Objectives: Further development of the QuPPe method and especially with the focus on the analysis of Diquat and Paraquat.

Description: This task will include the introduction of new separation methods (using newly introduced LC-columns) and the optimization of the extraction procedure for Diquat/Paraquat in commodities in which poor extractability and/or recovery rates have been noticed. A small-scale monitoring of Diquat and Paraquat residues in various types of samples will be conducted, with special focus on samples where residues are expected (e.g. oily seeds, pulses). A certain number of samples where extractability-difficulties have been observed, will be studied more thoroughly to evaluate the extractability behaviour of these two compounds and whether ILISs can effectively compensate for the occurring losses. Note: Paraquat and diquat are among the compounds where support from EURLs is requested within the working document for national control programs (WD-NCP)

Expected Output: Improvements in the analysis of Diquat and Paraquat. Update of the QuPPe-method protocol provided on the website of the EURL-SRM. Inclusion of results of the small-scale monitoring

in the 2023 and 2024 residue observation reports for SRM compounds. Presentation (oral and/or poster) at an expert conference.

Duration: throughout 2023 and, if needed, also within 2024

Inter-laboratory exercise concerning the screening of DTC-marker compounds

(Task partly shifted to WP 25-27, see Amendments p. 27)

Objectives: Check the transferability and validity of the EURL-SRM approach for the analysis of DTCs (elaborated within the WP 2021/22), which involves initial screening of DTC-marker compounds via routine methods and (in case triggered) the subsequent analysis by (typically more cumbersome) approaches of DTC-analysis (e.g. involving transformation to the CS₂-common-moiety, or involving derivatisation of DTC monomers to enable a more specific analysis of individual DTC-groups).

Background: The screening of marker compounds of DTC fungicides, such as ETU, EU und eBIC (for the ethylene-bis-DTCs) as well as of PTU, PU and pBIC (for the propylene-bis-DTCs), by using common multi-residue extraction methods and GC/LC-MS instruments allows a judicious and cost-effective use of cumbersome methods for DTC-analysis.

Description: An inter-laboratory exercise will be organized, which aims at comparing the screening capabilities of the various laboratories and for checking the feasibility of screening DTC-marker compounds at low levels. The aim is to involve at least four different labs with different instrumental setups.

Expected Output: Planning of the study, preparation of a protocol, shipment of samples, assistance to laboratories, ~~collection of data, evaluation of data and extraction of conclusions as regards the transferability and validity of the EURL-SRM approach for the analysis of DTCs, involving an initial analysis/screening of DTC-marker compounds via routine methods and (in case triggered) a subsequent analysis by the CS₂-common-moiety approach (or another more specific approaches for DTC-analysis).~~ Results of this study will be delivered in form of a short communication and/or a presentation (oral or poster) at an expert conference.

(Crossed tasks/output shifted to the work programme 2025-27)

Duration: throughout 2023 and 2024

Further development of a method for the analysis of DTC-monomers following derivatisation

Objectives: Developing a robust, sensitive and selective QuEChERS-based method for the determination of DTC-monomers following derivatisation. This would allow the differentiation of the various DTC-groups (propylene-bis-DTCs, ethylene-bis-DTCs; dimethyl-DTCs).

Description: The efforts for developing a method that would allow differentiation of various DTC-groups (propylene-bis-; ethylene-bis-; and dimethyl-DTCs) will continue. The aim is to avoid the use of carcinogenic derivatisation reagents, such as methyl bromide and dimethyl sulphate. Preliminary results showed a possible inclusion of the derivatisation approach into a modified QuEChERS procedure and measurement by LC-MS/MS. A comparison against the method established by the French laboratory network (however using carcinogenic reagents), as well as against the commonly used approach focusing on the CS₂-moiety is planned.

New tasks added following consultation with DG-SANTE (see Amendments p. 27)

- a) Survey on potential participation of NRLs/OfLs in EURL-SRM DTCs project
- b) Upload of a video on the “Preparation of DTC-suspensions based on a xanthan gum-solution”.
- c) Additional online-training to NRLs/OfLs if requested.
- d) Validation of the DTC-suspension-spiking step by volunteering OfLs/NRLs based on a protocol that will be prepared and distributed by the EURL-SRM, which will entail details on how to prepare the spiking solutions and on how to analyse DTCs via the optimized common moiety procedure for the analysis of DTCs as CS₂. This study may involve various common DTCs (e.g. mancozeb, maneb, metiram, zineb, propineb, ziram) with the determination being conducted by the widely established common-moiety determination approach (CS₂-method).
- e) Collection and evaluation of the DTCs validation data by EURL-SRM.

Expected Output: Development of a method allowing a more selective analysis of DTCs (compared to traditional methods entailing transformation to CS₂) by analysing for DTC-monomers after derivatisation. Generation of a demo video showing how to prepare DTC-suspensions. Protocol for the validation of the DTC-suspension validation step. Results delivered as short communication and/or presentation (oral and/or poster) at an expert conference.

Duration: throughout 2023 and 2024

Follow-up on pilot monitoring project on honey

Objectives: Continue applying existing methods developed by the EURL-SRM to analyse honey samples from various countries for pesticides and various metabolites.

Description: Additional ca. 80 honey samples from various countries will be analysed for the presence of SRM-pesticides with the analyte scope being expanded by some additional polar metabolites. A comprehensive report of the findings (including those of the WP 2021/22) will be prepared.

Expected Output: Consolidated report of the honey pilot-monitoring of 2022 and 2023 and/or presentation of the results (oral and/or poster) at an expert conference.

Duration: throughout 2023

Check the quality, accuracy and comparability of commercially available standards of pyrethrins and individual components thereof

Objectives: Investigate the composition of available pyrethrin standard substances.

Description: This activity may involve contact with various commercial providers of pyrethrin standards (mixtures and individual components), and comparative measurements of standard from various sources. If deemed necessary, qNMR may be used to check the content of the various pyrethrin components in pyrethrin mixtures. In samples with incurred residues, so far available, the relative ratio of the measurable components in these samples, will be compared with the relative ratio of the components in the commercial standards.

Note: Pyrethrins are among the compounds where support from EURLs is requested within the working document for national control programs (WD-NCP)

Expected Output: Comparison of the compositions of pyrethrin analytical standards available on the market. Development of an approach on how quantify pyrethrins in routine analysis by using the provided analytical standards.

Results delivered as short communication and/or a presentation (oral and/or poster) at an expert conference.

Duration: throughout 2023 and 2024

Implementation of a method for the analysis of Copper residues

Objectives: A method for the analysis of copper residues in various food commodities will be introduced in anticipation of the inclusion of copper compounds in the MACP from 2024 onwards.

Background: Copper compounds are widely used in the EU in fungicidal PPPs, and are also allowed to be used in organic farming. Being classified as pesticides, copper compounds technically fall within the responsibility area of pesticide labs, but in practice, analysis is often run by laboratories responsible for contaminants and heavy metals. This proves more practical as copper is covered by methods covering a multitude of additional metals. The analysis of heavy metals involves instrumentation that is not commonly used by pesticide residue laboratories. In 2022 it was decided to include copper compounds in the MACP from 2024 onwards and the respective regulation was adopted in April 2023 (COMMISSION IMPLEMENTING REGULATION (EU) 2023/731). There is therefore the need to implement the necessary communication channels and structures that would facilitate the analysis of copper-compounds in the MACP and NCP samples collected for the purposes of pesticide analysis.

Description:

The EURL-SRM will check the applicability of the methods for copper analysis in the analysis of exemplary commodities of plant and animal origin included in the MACP 2024-2026. The quality-control approaches and performance criteria used in the pesticide residue area differ from those in the contaminants and heavy metal analysis area. The different existing approaches for determining the characteristics of methods, such as LODs, LOQs, recovery rates etc. need to be compared and consolidated.

Note: Prior to the decision of including copper (compounds) in the 2024-2026 MACP, it was mentioned as one of the analytes where support from EURLs was requested within the WD-NCP.

Expected Output: Method(s) for the analysis of copper residues in various food commodities will be introduced. Conduction of a survey to obtain a more clear picture about the way the various EU member states are intending to tackle the analysis of copper compounds within the MACP framework. The connections between the lab sections responsible for pesticide residues and the sections responsible for heavy metals should be clarified via a survey.

Results delivered as short communication and/or a presentation (oral and/or poster) at an expert conference.

Duration: throughout 2023

Investigations on pesticides considered being polyfluoroalkyl substances (PFAS)

(New task, see Amendments p. 27)

Objectives: Compilation of available validation data on roughly 50 PFAS pesticides, proposal of LOQs, revision of current residue definitions, and identification of areas where validation data is missing.

Description: PFAS have become a matter of concern in recent years. The EURL-SRM will collaborate with the other 3 EURLs to start investigating which PFAS substances and relevant metabolites e.g. TFA might need further method development. .

Expected Output: Results will be delivered in form of an excel-file compilation to DG-SANTE.

Duration: H2 2024

Work on improving the analysis of cypermethrin isomers with special focus on alpha-cypermethrin

(New task, see Amendments p. 27)

Objectives: Collaborate with the other three EURLs in establishing methods for the analysis of alpha-cypermethrin. Develop strategies to facilitate screening and quantitative analysis of cypermethrin and constituent components thereof (especially alpha-cypermethrin) by laboratories within the NRL/OfL network. Study the analytical behaviour of cypermethrin in GC-analysis and elaborate strategies to reduce, compensate or circumvent the impact of thermal isomerisation in GC-injectors on the accuracy of alphamethrin analysis. Ensure that alpha-cypermethrin can be monitored by a substantial number of OfLs within the EU.

Description: Study the chemistry of Cypermethrin and provide technical assistance to DG-SANTE and EFSA will be provided via e-mail and online-meetings. Conduct experiments employing GC-techniques to study the thermally induced isomerisation between cypermethrin-isomers as well as the impact of various factors, such as injection conditions, matrix type and matrix-treatment history on isomerisation. Study how to reduce or compensate for the isomeric composition in order to reduce quantification errors. Study the use of LC-(ESI-)MS/MS by testing various chromatographic columns and separation gradients, with the goal to achieve sufficient separation. Collaborate with the other EURLs following an action plan drafted by DG-SANTE. Collaborate in the working group on cypermethrin that will be established to deal with analytical aspect of cypermethrin and alpha-cypermethrin analysis

Expected Output: Results of this study will be delivered in form of a short communication and/or a presentation (oral or poster) at an expert conference. Technical assistance to DG-SANTE and EFSA will be provided via e-mails and online-meetings.

Duration: Throughout 2024.

List of Indicators WP1:

To provide the following information:

- Number of laboratory methods for which details and guidance as regards their techniques, validation and interpretation are available in the EURL website

- Number of new laboratory methods developed in the reporting period
- Number of laboratory methods improved in the reporting period
- Number of Proficiency Tests (PTs) organised by the EURL for national reference laboratories/NRLs and OfLs (indicate for each year – 2023 & 2024)
- Cost of PTs
- Number of Comparative Tests (CTs) organised by the EURL for NRLs and OfLs (indicate for each year – 2023 & 2024)
- Cost of CTs
- Success rate of Member States NRLs and OfLs in proficiency tests and comparative tests and, if necessary, corrective action
- Number of corrective actions undertaken (aggregated data on corrective actions for all NRLs)

3.2. Work Package 2 - ASSISTANCE TO NRLs

Objectives: TO PROVIDE SCIENTIFIC AND TECHNICAL ASSISTANCE TO NRLs

activities related to Regulation (EU) 2017/625:

- *Art. 94.2.d Coordinating practical arrangements necessary to apply new methods of laboratory analysis, testing or diagnosis, and informing national reference laboratories of advances in this field.*
- *Art. 94.2.e Conducting training courses for staff from national reference laboratories and, if needed, from other official laboratories, as well as of experts from third countries.*
- *Art. 94.2.g Providing information on relevant national, Union and international research activities to national reference laboratories.*

Sub-activity 3.2.1 Providing technical and scientific support to NRLs

Technical assistance to NRLs via e-mail and personal communication

Objectives: Provide assistance to NRLs and other stakeholders.

Description: The EURL-SRM uses the central mail address eurl-srm@cvas.bwl.de for requests. Additional requests are received by individual EURL-members. The requests may come from a very diverse group of people, including members of NRLs, OfLs, third country labs and other. The topics raised in these requests are very diverse, typically concerning analytical issues (such as the availability of methods, problems with SRM compounds and the availability and usage of (isotopically labelled) internal standards), Depending on the request, information from various sources (internet, literature, own data) may need to be collected and evaluated and in exceptional cases, small-scale experiments may be needed. Requests concerning the organization of EUPT-SRMs, the participation in EURL workshops and trainings as well as DataPool issues are forwarded to the responsible persons for further actions.

Expected Output: Provide swift assistance to EURLs, NRLs, OfLs, 3rd country labs and other stakeholders, by answering requested topics via e-mail or phone. No specific deliverables can be defined in advance as any activities within this context will be conducted as required. An overview would be given in the final report.

Duration: throughout 2023 and 2024, on request.

EURL DataPool-website (<https://www.eurl-datapool.eu>) (Horiz. Activ.)

Objectives: Maintain and develop further the EURL DataPool platform, which serves the administration of the NRL/OfL Network within the pesticide residue area as well as the systematic collection and retrieval of information of practical use for analysts working in the area of pesticide residues.

Description: The current framework of the website is based on an outdated technology (.NET 4.0 framework) which IT companies have since stopped supporting. The EURL-SRM started to bring the

parts of the EURL DataPool-website up-to-date with the latest technology (Single Page Applications; BLAZOR). This activity involves a complete redesign and programming of the entire web application. Due to the size and complexity of the DataPool-website, this activity will continue in 2023 and 2024. In the course of this activity, existing databases will be adapted to current developments and requirements of COM and/or EURLs. Throughout 2023 and 2024, the existing databases will be maintained, upgraded and filled-up with further data:

- **Analytical Methods Database:** Implementation of the analytical methods developed by the EURLs. Analytical methods developed by the EURLs will be introduced including links to the pdf-files within the EURL Portal-website. This info is used by the Method Finder List-tool (see below).

- **Method Validation Database:** Import of validation data generated by the EURL-SRM, including data generated during the process of re-evaluating MRLs and residue definitions, e.g. within the framework of Art. 12 of Reg. (EC) 396/2005. The EURL-SRM will continue teaching NRLs and OfLs how to use the validation-data-import-tool. Note: The contribution of method validation data into the EURL DataPool depends on the willingness of these labs to act in this direction.

- **Pesticides Database:** Generation or collection of further data for the characterization of pesticides (e.g. GC-, LC-amenability, analytical behaviour, GC-MS-spectra, GC-MS/MS-transitions; LC- and GC-high resolution MS-data) and import of this information into the DB. This includes the creation of new entries for pesticides and metabolites not yet in the DB. Approximately 100 compounds will be expectedly introduced in 2023/24.

- **Stability of Compounds Database:** Collection of more data on the stability of pesticides/metabolites and import of this data into the DB. The EURL-SRM is in contact with several labs generating pesticide stability data, but contribution of this data into EURL DataPool depends on the willingness of these labs to submit their data. Expand the database to allow tracking information on the stability of pesticides in sample homogenates under different conditions.

- **Pesticide Authorisations Database:** no tasks in 2023 and in 2024

- **Commodities Database:** no tasks in 2023 and in 2024

- **MRL Residue Definitions Database:** Updating of EU MRL residue definitions on a regular basis. Updating of Codex MRL residue definitions (once a year after the annual CCPR-meeting); Updating of compound conversion factors within the DB.

- **EUPT Registration Tool:** On-line Registration Tool for the EUPTs provided by the four EURLs concerning pesticides. The 4 EURLs jointly decided to implement the EUPT Registration-tool into the EURL DataPool-website. The new tool will be used for the EUPTs to be conducted in 2023 and 2024. The EURLs will discuss and jointly decide on refinements/improvements and up-grades of the registration-tool. Modifications will be implemented if needed (Horiz. Activ.).

- **EUPT TPL-Tool:** Implementation of a tool allowing managing and administrating the information of the EUPT-target pesticides lists (TPLs). The four EURLs concerning pesticides jointly decided to implement a DataPool-based tool that would allow EURLs to select on-line the analytes to be included in their TPL, and to add further information (e.g. PT-specific name, PT-specific residue definition, additional notes) in appropriate fields that need to be created. The TPL-Tool should also allow exporting this information to facilitate the generation of TPLs as well as the generation of an export file for the purpose of entering certain TPL-data into the EUPT-Webtool (run by the EURL-CF). By establishing the TPL-Tool it is ensured that the two databases (DataPool and WebTool) use a joint coding system, thus facilitating data transfers in both directions.

- **EUPT Archive:** see 3.1.4 (EUPT-Evaluation Views).

- **NRL-/OfL/User-Network Database:** Various editing-forms were introduced in the DataPool to allow NRLs and OfLs to update specific data about their labs: lab contact data, lab-functions, email-addresses, lab-members, lab-tasks within the frame of official controls (import controls, commodity scope, pesticide scope, etc.). On several occasions throughout 2023 and 2024, the EURL-SRM will prompt all NRLs and OfLs to update their data within the EURL-DataPool. An email verification tool will be implemented within the EURL DataPool in order to keep the email addresses of lab-network members as up-to-date as possible as this information is essential for the Lab Network Database. Within the EURL DataPool, the EURL-SRM will assign newly registered lab members to the “myLab”-area of the laboratories they are employed.

- **SRM-Pinboard-Service:** The “SRM-Pinboard” provides labs interested in subcontracting certain analyses to other labs, and labs interested in providing analytical services to other labs, a platform that helps them conveniently find each other. In 2023/24, the OfLs within the network will be prompted to use the SRM-Pinboard in order to expand the analytical scope. The list of labs considered proficient for the analysis of individual SRM-compounds will be updated, as soon as new PT results become officially available or whenever a lab wishes to enter the list or change its status.

Expected Output: Updated webpages and databases; An overview of the activities and progress will be given in the final report.

Duration: throughout 2023 and 2024

Compilation of the EURL Method Finder-List (MFL)

Objectives: Provide network labs with an overview of and a quick access to methods developed or validated by the EURLs to cover compounds included in MACP-regulations or the WD-NCP.

Background: The EURL Method Finder List gives an overview of the EURL-methods, -validation reports, and -analytical observation reports released by the EURLs and concerning compounds that are included in the MACP-Regulations and the WD-NCP. It is updated annually and can be accessed here: http://www.eurl-pesticides.eu/docs/public/tmpl_article.asp?CntID=629&LabID=100&Lang=EN

Description: An updated version of the MFL will be prepared both in 2023 and 2024 considering new EURL-documents (e.g. method validation reports) and analytes newly introduced within the MACP-Regulation and the WD-NCP (SANCO/12745/2013).

Expected Output: Upload of the Method Finder List 2023 on the EURL website within H1 2023. Upload of the Method Finder List 2024 on the EURL website within H1 2024.

Duration: Throughout 2023 and 2024.

Incorporate information included in the MFL and the WD-NCP within the EURL DataPool and develop a tool allowing tracking/editing and retrieval of this information (NCP/MFL-Tool)

(Task partly shifted to WP 25-27, see Amendments p. 27)

Objectives: Integrating information currently entailed in the WD-NCP and the MFL into the EURL DataPool and developing a tool (NCP/MFL-Tool) that would allow to conveniently edit and retrieve this information. Having all information in one place and a proper on-line tool for editing should

facilitate work-sharing and parallel editing (e.g. by COM and EURLs) and ultimately lead to synergy effects by avoiding redundant work.

Background: The MFL is essentially a supplement to the WD-NCP and the MACP Regulation and is currently published in an Excel format and accessible via the EURL-website. The MFL is annually being updated, but updating is currently quite laborious, as it involves extensive manual copy-pasting of information from the latest versions of the NCP-WD and the MACP-Reg. into Excel. There is therefore a great need of improving this process and making it more effective by integrating all necessary information within the EURL-DataPool to avoid extensive manual copy-pasting of information from the latest versions of the NCP-WD and the MACP-Reg. into Excel.

Description: It is intended to work towards expanding the EURL DataPool to enable tracking of data currently entailed in the MFL and the WD-NCP. Thereafter a web-based tool (NCP/MFL-Tool) should be created that should allow on-line access to this information through an on-line table. The table should offer sorting and filtering options and should entail links to EURL-documents concerning EURL-documents (e.g. method development or validation reports) on specific analytes of relevance. The NCP/WD-NCP-Tool will be gradually built up in close cooperation with the COM. At a first stage information currently in the WD-NCP and the MFL will be tracked into the database. In a second stage, the goal is to develop a special on-line editing form that would allow editing of the information by authorized users. The possibility of linking the EURL-DataPool with the EU pesticides database (e.g. via the upcoming web-services) will be checked, with the aim of keeping dynamic information (e.g. tox-data, registration status etc.) up-to-date. The possibilities for exporting the WD-NCP data into a pdf file in a form that would facilitate manual generation of a pdf file will be checked.

Expected Output: At a first stage expansion of the DataPool to accommodate information that is necessary for the NCP/WD-NCP-Tool. Also, tracking of existing information into the DataPool. ~~At a second stage development of an online view (and possibly an Excel export) giving an overview of the the information concerning each compound including links to EURL Documents. At a third stage, the intention is to create the NCP/WD NCP Tool, which would allow viewing and editing of information on single compounds by persons having the respective access rights. The achievement of the third stage output will depend on the progress made and may partly fall outside the 2023/24 period.~~

An overview of the activities and progress will be given in the final report.

(Crossed tasks/output shifted to the work programme 2025-27)

Duration: 2023 and 2024 (this task will gradually evolve following an incremental approach).

Sub-activity 3.2.2 **Organisation of workshops**

EURL Joint Workshop in 2023 (Horiz. Activ.)

Objectives: Strengthen collaboration within the lab network, disseminate knowledge, provide up-to-date information, and discuss results of EUPTs.

Description: A Joint workshop of all 4 EURLs on pesticides will be organized by the EURL-SRM and will take place in Fellbach, in October 2023. NRLs from all MS were invited to attend the workshop, with the main objective to facilitate the interaction between them and the EURLs and to discuss the EUPTs and new analytical developments. During the workshop in 2023 the draft of the updated DG-SANTE quality control procedures document (SANTE/12682/2019) will be discussed and the final version of the document will be technically approved by the NRLs representing their MSs. The workshop will be held during two days, and will entail technical and scientific communications regarding new activities

of the EURLs and other developments in the field of pesticide residues analysis. This activity involves the organization of the event as well as post-workshop duties, such as the preparation of a workshop report and the reimbursement of participants.

Note on budget: the other 3 EURLs on pesticides, agreed to reduce their budget by 25,000 € so that 75,000 € can be added to the EURL-SRM budget to be used for the needs of the joint workshop.

Expected Output: The Joint workshop report will be created by the end of January 2024.

Duration: throughout 2023

EURL Workshop in 2024

Objectives: Strengthen collaboration within the lab network, disseminate knowledge, provide up-to-date information, and discuss results of EUPTs.

Description: A workshop will be organized, possibly in collaboration with another EURL. The collaboration will depend on the commodity chosen for the 2024 EUPT-SRM.

Note on budget: 20,000 € for travel, hotel and daily allowance for the participants. In the EURL-SRM budget for 2021/22 no workshop budget was included as the two workshops took place elsewhere (in 2021 joint workshop of 4 EURLs in Almería and in 2022 joint workshop of EURL-FV and SRM in Almería)

Expected Output: A workshop report will be created within 3 months after the workshop took place.

Duration: Throughout 2024

Sub-activity 3.2.3 **Organisation of training courses**

SRM-Training in 2023 and in 2024

Objectives: Provide up-to-date information on methods and hands-on training, and discuss individual analytical problems of OfLs.

Description: A training course with 8 to 10 participants will be organized in Fellbach/Germany. The training will cover technical aspects on the analysis of SRM-pesticides and the exchange of experiences among participants. Special needs and problems of the participating labs will be considered in the design of the training program. Additional ad-hoc trainings may be conducted as requested. The possibility of collaborating with another EURL in one of the trainings will be checked.

Expected Output: A training report is being created within three months after the training.

Duration: 2023 and 2024 (date and location not yet defined).

Sub-activity 3.2.4 **Visits of NRLs**

Objectives: Provide on-site assistance and support to NRLs facing difficulties of analytical or organizational nature.

Description: The NRL-SRM of one selected country will be visited by one or two representatives from the EURL-SRM in each 2023 and 2024. The countries to be visited will be selected giving emphasis on

NRLs having shown poor analytical scope and/or PT-performance and/or PT-participation over the last years as well as on countries where the NRL-structure has been altered. Prior to the visit, a detailed study of the EUPT results during the last years as well as the current analytical scope of all OfLs will be carried out. In case of bad PT-performance, the possible reasons will be discussed and advices will be given on how to improve and expand the analytical scope.

Expected Output: NRL-visit reports for 2023 and 2024 will be created.

Duration: At some point in 2023 and 2024 (dates not yet defined).

Sub-activity 3.2.5 **Organisation of tutorials/webinars**

Objectives: Disseminate information of interest to laboratories in a cost-effective way.

Description: Publication of at least one tutorial and/or webinar in 2023 and 2024 on various topics as needed. One or more online webinars will be conducted to accustom NRLs and OfLs with features of the EURL-DataPool with focus on the submission of validation data (for all labs), registration in EUPTs (for all labs) and administration of the OfL-Network (for NRLs).

Expected Output: Publication of at least one tutorial or (slides of) a webinar in the EURL DataPool-website in 2023 and in 2024.

Duration: 2023 and 2024 (dates not yet defined).

Sub-activity 3.2.6 **Updating and publication of the list of NRLs (Horiz. Activ.)**

Objectives: Maintain an up-to-date online list of the NRL-SRMs.

Description: Keep the list of NRLs in the area of pesticides up-to-date. As the list is linked to the EURL-DataPool, the NRLs will be prompted to update any information concerning their labs within the DataPool (see also Sub-activity 3.2.1: [NRL-/OfL/User-Network Database](#)). In case of vital changes the NRLs will be reminded that NRL-information needs to be communicated primarily to DG-SANTE.

Expected Output: Updated list of NRLs available in EURL DataPool-website

Duration: Throughout 2023 and 2024.

List of Indicators WP2:

To provide the following information:

- Number of enquires requested from national support networks and bodies and competent authorities
- Number and quality of replies provided to enquiries of national support networks and bodies and competent authorities
- Number of training and collaboration activities with national support networks and bodies and competent authorities
- Number of workshops & meetings organised
- Cost for workshops & meetings and average cost for participant
- Number of technical assistance provided by the EURL to NRLs enquiries

3.3. Work Package 3 - ASSISTANCE TO THE EUROPEAN COMMISSION AND OTHER ORGANISATIONS

Objectives: TO PROVIDE SCIENTIFIC AND TECHNICAL ASSISTANCE TO THE EUROPEAN COMMISSION AND OTHER ORGANISATIONS

activities related to Regulation (EU) 2017/625:

- *Art. 94.2.f Providing scientific and technical assistance to the Commission within the scope of their mission.*
- *Art. 94.2.h Collaborating within the scope of their mission with laboratories in third countries and with the European Food Safety Authority (EFSA), the European Medicines Agency (EMA) and the European Centre for Disease Prevention and Control (ECDC).*
- *Art. 94.2.i Assisting actively in the diagnosis of outbreaks in Member States of foodborne, zoonotic or animal diseases, or of pests of plants, by carrying out confirmatory diagnosis, characterisation and taxonomic or epizootic studies on pathogen isolates or pest specimens.*

Sub-activity 3.3.1 **Technical and scientific assistance to the Commission**

Technical support to DG-SANTE for the evaluation or re-evaluation of pesticides (e.g. within the framework of Art.12 of Reg. (EC) 396/2005)

Objectives: Provide assistance and technical support to DG-SANTE and EFSA (on behalf of DG-SANTE) on all aspects related to the (re-)evaluation of pesticides. Where necessary, conduct experiments to assess the analytical behaviour of pesticides.

Description: Within 2023 and 2024, approx. 100 compounds (pesticides and metabolites) will be expectedly evaluated within the framework of various legally-based (re-)evaluations (e.g. Art. 12 of Reg. (EC) 396/2005, Art. 43 of Reg. (EC) 396/2005, Art.12 Reg. (EC) 844/2012 (renewal of approval), New Active Substances (NAS)), or evaluated within the framework of ad hoc projects of the COM (e.g. concerning compounds with background levels, candidates from Annex IV of Reg. (EC) 396/2005). The EURL-SRM will continue its coordinating role in evaluating these compounds as agreed with DG-SANTE. In most cases, the evaluation will expectedly involve the conduction of analytical experiments to check, amenability to multiresidue methods and analytical behaviour in general. In some cases modifications of the QuEChERS method or single residue methods may need to be introduced. Where validation data do not exist or are not sufficient, validation experiments will be conducted to determine achievable LOQs. Necessary standards of pesticides or metabolites will be purchased and should those not be available, applicants will be contacted to provide them. Where analytical standards remain unavailable this will be reported to the COM.

Please note: The expected time needed for this task including the experiments is expected to exceed the 265 working days per year that were allocated in the budget (extrapolation from previous years).

The expected effort (in man days) for the activities (study of documents and for preparing the review report) required for this task is listed below:

Type of compound	Expected No. of compounds	Days for lab activities involved				Sum (Working days)
		NO	SOME	EXTENSIVE	VERY EXTENSIVE	
<i>Estimated man-days for 10 compounds (avg)</i>		0	15	30	100	
requiring NO Lab Activities	22					0
requiring SOME Lab Activities*	10		15			15
requiring EXTENSIVE Lab Activities**	10			30		30
requiring VERY EXTENSIVE Lab Activities***	8				80	80
					SUM	125
	Expected No. of compounds	Days for review / administration				Sum (Working days)
		NO	MINOR	EXTENSIVE	VERY EXTENSIVE	
<i>Estimated man-days for 10 compounds (avg)</i>		0	10	25	40	
requiring MINOR effort for review	5		5			5
requiring EXTENSIVE effort for review	30			75		75
requiring VERY EXTENSIVE effort	15				60	60
					SUM	140
Total SUM						265

* e.g. for somehow challenging analytes requiring minor modifications of MRM-methods with few matrix groups being involved

** e.g. for somehow challenging analytes requiring modifications of MRM-methods with many matrix groups being involved OR challenging, non-MRM amenable analytes (parent or metabolites) with few matrix groups being involved

*** e.g. for challenging, non-MRM amenable analytes (parent or metabolites) with many matrix groups being involved OR for highly challenging, non-MRM-amenable analytes (parent or metabolites), requiring extensive method development (irrespective of matrix-groups involved)

Expected Output: EURL-Evaluation Reports for analytes under Article 12 of Regulation (EC) No. 396/2005 (during EFSA completeness check period) and compounds within the framework of other programs, comments on EFSA draft reasoned opinions, comments on LOQ requests by the COM, comments on regulation drafts by the COM, comments on RAR for compounds under renewal, comments on DAR for NAS, comments on EFSA review reports based on Art. 43 of Reg. (EC) No. 396/2005, communication via e-mail. A summary about the activities requested by COM and EFSA is provided.

Duration: Throughout 2023 and 2024, as requested. Timing as requested by the deadlines given.

Support DG-SANTE on aspects related to monitoring activities

Objectives: Provide technical assistance to DG-SANTE in drafting the MACP regulation and the monitoring working document and in providing an overview of the available methods.

Description: Technical assistance will be provided to DG-SANTE where this is requested. This may involve the following activities:

- checking amenability of compounds to multiresidue methods and the availability of analytical standards on the market
- participation in meetings (e.g. in Brussels or on-line);
- preparation of a new Pesticide Ranking List (PeRL) following collection and evaluation of the necessary data, if requested
- revision of documents
- communication with DG-SANTE and other stakeholders

- f) update of MFL and activities to integrate the MFL and the WD-NCP within the DataPool (see 3.2.1)
g) Survey among all NRLs and OfLs in the network in order to find out which compounds of the working document are routinely covered by the OfLs.

Expected Output: Review of draft documents, technical comments through various channels of communication, updated version of MFL (see 3.2.1), generation of a new pesticide ranking list (PeRL, if requested), Survey report on compounds and residue definitions routinely covered by laboratories within the network. A summary of further conducted work within this sub-activity is provided in the final report.

Duration: throughout 2023 and 2024, mainly on request

Revision of QA/QC-Document

(https://www.eurl-pesticides.eu/docs/public/tmpl_article.asp?CntID=727&LabID=100&Lang=EN)

Objectives: Revise the DG-SANTE document on “Analytical Quality Control and Method Validation Procedures for Pesticide Residues Analysis in Food and Feed” (AQC-Document) and technically approve the document at NRL level.

Description: Jointly with the other EURLs and the members of the AQC-Advisory Group and the NRLs the EURL-SRM will contribute in the revision of the guidance document. The activity will involve participation in coordination meetings of the AQC-Advisory Group (physically or on-line) as well as discussion with the NRLs. A technical approval of the new version is planned during the joint EURL-NRL-Workshop in 2023 (in Fellbach). For the next revision, due in 2023, three coordination meetings of the AQC-Advisory Group will be also held in 2023 (January, June, October) with the EURL-SRM participating. In 2024, the preparations for the next revision, due in 2025, will start. This activity will foreseeably entail at least one meeting with the AQC-Advisory Group.

Expected Output: The revision work will materialize in a new, technically approved, version of the document. The new document, or a link to it, will be uploaded within the EURL-Website after approval by the PAFF-committee.

Duration: During 2023, dates/periods not yet defined

Sub-activity 3.3.2 **Collaboration with European and international organisations (EFSA, CEN, ISO, ...) and Third Countries**

Support to EFSA as regards the collection/evaluation of data concerning natural background levels of trimesium in food

Objectives: Provide technical assistance to EFSA in regards to evaluating the occurrence of (e.g. processing-related) background levels of trimesium in food.

Background: EFSA and COM started to conduct a project regarding trimethyl-sulfonium cation with the aim of exploring the background levels and revising the MRIs and the residue definition. Data for trimethyl-sulfonium cation in tea were provided by the industry indicating that formation may take place during drying processes. It is necessary to explore whether this may be also true for other matrices than tea.

Description: The EURL-SRM will provide monitoring data for trimethyl-sulfonium cation in various matrices to support EFSA regarding this topic. If provided by EFSA or the COM the monitoring data collected by EFSA will be reviewed. If necessary, small-scale experiments will be conducted to experimentally support certain conclusions.

Expected Output: Recent monitoring data generated by the CVUA Stuttgart will be compiled and if requested, provided to EFSA. If requested the data-collection of EFSA will be reviewed. In case experiments are conducted the results will be communicated to the COM and EFSA. No specific deliverables can be defined in advance as any activities within this context will be conducted as required. An overview would be given in the final report.

Duration: 2023 and/or 2024 as requested

Support to standardisation bodies

Objectives: Pursue the standardization of methods.

Description: This activity will include active involvement in the activities of the pesticide residue group of the CEN (European Standardization Body) and DIN (German Standardization Body) as well as of the German group for the establishment of official methods. Among others, these activities involve the standardization of the QuPPE and QuOil method at CEN level.

Expected Output: Revisions, evaluation of validation data, participation in meetings. No specific deliverables can be defined in advance as any activities within this context will be conducted as required. An overview would be given in the final report.

Duration: Throughout 2023 and 2024 as scheduled/requested

Sub-activity 3.3.3 **Participation in symposiums, workshops and seminars for the dissemination of scientific information.**

Objectives: Present results of EURL-activities, interact with the scientific community and collect information, in order to stay updated about the developments in the field.

Description: This activity may involve participation in various international conferences and workshops upon invitation, including oral presentations and/or scientific posters.

Expected Output: Oral presentations and posters. No specific deliverables can be defined in advance as any activities within this context will be conducted as required. An overview would be given in the final report.

Duration: Throughout 2023 and 2024 as scheduled/requested

List of Indicators WP3:

To provide the following information:

- Number of technical and scientific feedback provided by the EURL based on European Commission enquiries

- Number of collaboration activities with other organisations

3.4. Work Package 4 - REAGENTS AND REFERENCE COLLECTIONS

Objectives:

- Art. 94.2.j *Coordinating or performing tests for the verification of the quality of reagents and lots of reagents used for the diagnosis of foodborne, zoonotic or animal diseases and pests of plants.*
- Art. 94.2.k *Where relevant for their area of competence, establishing and maintaining:*
 - i. *reference collections of pests of plants and/or reference strains of pathogenic agents;*
 - ii. *reference collections of materials intended to come into contact with food used to calibrate analytical equipment and provide samples thereof to national reference laboratories;*
 - iii. *up-to-date lists of available reference substances and reagents and of manufacturers and suppliers of such substances and reagents.*

Sub-activity 3.4.1 **Up-to-date lists of available reference substances and reagents and of manufacturers and suppliers of such substances and reagents.**

List of Suppliers of Isotopically Labelled Internal Standards (Horiz. Activ.)

Objectives: Facilitate the retrieval of isotope labelled standards (ILISs) by the laboratories and thus promote the use of ILISs

Description: A list with manufacturers of ILISs for selected compounds will be introduced in the EURL Website. The list will cover the compounds analyzed by the QuPPE methodology, selected compounds within the MACP regulation and working document as well as selected compounds for which methods have been published by the EURLs.

Expected Output: List of ILISs will be introduced and made available on the EURL website.

Duration: Within 2023 and 2024

List of suppliers of Analytical Standards (Horiz. Activ.)

Objectives: Facilitate the retrieval of analytical standards of new compounds and compounds for which a non-availability of analytical standards on the market was noticed in the recent past (e.g. if this is stated in the MRL-Website).

Description: The existing list with sources of analytical standards, which is prepared by the EURL-SRM as a horizontal activity, will be updated as required. Websites of various manufacturers/suppliers for these analytical standards will be periodically checked for updating the list.

Expected Output: List of analytical standards will be updated and made available on the EURL website.

Duration: Within 2023 and 2024

Amendments following requests by and in agreement with DG SANTE

1) Tasks deleted or (partly) shifted

- **Sub-activity 3.1.4** - EUPT Evaluation Views: shifted to WP 25-27
- **Sub-activity 3.1.6** - Inter-laboratory exercise concerning the screening of DTC-marker compounds: Output partly shifted to WP 25-27
- **Sub-activity 3.2.1** - Incorporate information included in the MFL and the WD-NCP within the EURL DataPool and develop a tool allowing tracking/editing and retrieval of this information (NCP/MFL-Tool): Output partly shifted to WP 25-27

2) New tasks

- **Sub-activity 3.1.6** - Investigations on pesticides considered being polyfluoroalkyl substances (PFAS): New task
- **Sub-activity 3.1.6** - Work on improving the analysis of cypermethrin isomers with special focus on alpha-cypermethrin: New task
- **Sub-activity 3.1.6** - Further development of a method for the analysis of DTC-monomers following derivatisation: Partly new tasks