WORK PROGRAMME of EURL for PESTICIDE RESIDUES IN FOOD OF ANIMAL ORIGIN ANDCOMMODITIES WITH HIGH-FAT CONTENT

EURL AO

PERIOD: 2023-2024

Version 1.0
(date 31/01/2023)

CONTACT DETAILS

Dr. Bjoern Hardebusch
EU Reference Laboratory for Pesticides in Food of Animal Origin and Commodities with high Fat Content (EURL AO)
Chemisches und Veterinäruntersuchungsamt Freiburg
(State Institute for Chemical and Veterinary Analysis of Food)
Bissierstrasse 5
79114 Freiburg
Germany

Tel. +49 761 8855 137 (direct extension)
fax +49 761 8855 100
e-mail: bjoern.hardebusch@cvuafr.bwl.de
e-mail of the EU-RL: eurl-pesticides@cvuafr.bwl.de

SUMMARY

INTRODUCTION

European Union Reference Laboratory for Pesticides in Food of Animal Origin and Commodities with high Fat Content (EURL-AO)
EURL-AO is part of the network of the 4 EURLs (EURL-AO, EURL-CF, EURL-FV, EURL-SRM) dealing with pesticide residues in food and feed (www.eurl-pesticides.eu).

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 36 of Regulation (EU) No 652/2014:
(taking into account Art 147 of (EU) 625/2017)

1 TO ENSURE AVAILABILITY AND USE OF HIGH QUALITY METHODS AND TO ENSURE HIGH QUALITY PERFORMANCE BY NRLs.

Please, provided activities related to Regulation (EU) 2017/625:
(Number of Sub-activity boxes can be adjusted by EURL)

- *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 1.01 *Update and evaluation of current methods used by NRLs*

Objectives: Keeping analytical methods up to date and assistance for NRLs in application of methods

Description: With reference to the substances included in the EU Multi-Annual Control Programme (MACP) and mentioned in Chapter 4 and Annex II of the Working Document SANCO/12745/2013, Rev 14, the EURL AO will support NRLs to enhance their ability in performing analyses. After evaluation of the survey on analytical capabilities it is clear, that not every laboratory is able to analyse the full residue definition mainly due to lack of methods and standards. The EURL AO will prepare a list of poorly analysed substances by NRLs/OfLs. The selection of these analytes will be based on Proficiency Test (PT) results and already available lists ("Analytical capabilities" from 2022 by EURL SRM), including boscalid, mefentrifluconazole, penflufen and sulfoxaflor.
All pesticides on products of AO amenable to multi-residue methods (MRMs) mentioned in the Working Document/MACP will be part of the EUPTs AO 18 and 19 pesticides target list.
As an ongoing task pesticide metabolites will be included in existing multi residue methods, if feasible. Additionally the EURL AO will provide standard solutions for problematic pesticides (e.g. pyrethroids like deltamethrin, permethrin, cypermethrin, cyfluthrin) and send it to interested NRLs for comparison.

Expected Output: Improvement of analytical coverage of OfLs/NRLs, Presentation of work at (EURL) workshops, Report on the comparison of standard solutions

Duration: Throughout 2023/24.

Sub-activity 1.02 Scope-*Extension for* pesticides relevant in food of animal origin

Objectives: EFSA support regarding Art. 12 review, extension of scope, inclusion of pesticide metabolites in existing multi residue methods

Description: There is a need to develop and improve methods for analytes under Art. 12 review in order to support EFSA regarding achievable LOQs (see sub-activity 3.04 Support of Commission and EFSA including Art. 12 proposals). The spectrum of analytes will be frequently extended and updated. From the current list of pesticides the EURL AO will validate the following analytes of interest: dicamba, fenoxaprop-P, zoxamide, picloram, gamma-cyhalthrin, halosulfuron-methyl, malathion, metribuzin, clofentezine, difenoconazole, fosthiazate, lenacil, MCPA, MCPB, tri-allate, azadirachtin, and clopyralid. At least 80 % of these pesticides will be tested if they can be included in existing MRM-methods. The validation process will be performed at least for milk and milk products using the SANTE 11312/2021 guidance criteria. It is planned to add the pesticides into the scope of existing methods, e.g. QuEChERS, if feasible. Furthermore pesticide metabolites will be included in existing multi residue methods, if feasible. The list for analytes under Art. 12 review in 2024 is not known yet (usually published in November the year before).

Expected Output: Support of Commission and EFSA. Validation reports for the expanded pesticides report on MRM amenable pesticides and their metabolites tested for Art. 12 proposals

Duration: Throughout 2023 and 2024.

Sub-activity 1.03 *Automatisation of µ-SPE based method for GC amenable pesticides*

Objectives: development of a full automated micro-Solid Phase Extraction (µ-SPE) method

Description: Rapid methods such as QuEChERS and dispersive SPE methods are used by laboratories within Europe. Automatic sample preparation is getting important residues analysis. The EURL AO has upgraded an existing GC-MS/MS system with a µ-SPE PAL system. With this upgrade it shall be possible to perform a clean-up in less than 5 min and the extract is injected directly online into the GC-MS/MS. The automated procedure is expected to replace the d-SPE in routine laboratories. Advantages of the module is the less time and solvent consuming, reduced cost of analysis and reduced analytical errors associated with human factors. The automated method will be developed and the results will be compared with the existing automated FreeStyle method. The new procedure will then be validated with a matrix of interest (e.g. dairy products).

Expected Output: Support of NRLs (and OfLs), in particular in case of effective and fully automated clean-up methods. A method report will be published on CIRCA BC.

Duration: Up to 6 months in 2023 and 2024

Sub-activity 1.04 *Accurate Mass GC-Orbitrap and/or LC-Q-ToF*

Objectives: Development and validation of a screening and/or quantification method with GC and/or LC high resolution accurate mass instrumentation

Description: For the analysis of a high number of pesticides high resolution accurate mass instrumentation (eg. GC or LC coupled to ToF or Orbitrap) will be used to check for MRL compliance of the samples. With growing demand on pesticide residue laboratories to extend their scope of analysis, high resolution accurate mass systems have found increasing popularity. The information obtained can be used to reanalyse the sample in case of later findings. Matrices of interest are animal fat/plant oil and edible offal (i.e. liver and kidney). At least the development and validation of one screening method or quantitative method with either GC-Orbitrap or LC-Q-ToF will be performed using the matrix offal. If analysis is performed by LC-Q-TOF the validation will be performed for about 400 pesticides in fat from food of animal origin. If analysis is performed by GC-Orbitrap the validation will be performed for about 200 pesticides in fat from food of animal origin.

Expected Output: Support of NRLs (and OfLs), in particular in case of implementation of screening and quantitative methods for high resolution accurate mass instrumentation. A method report will be published on CIRCA BC. The results will be presented in an international workshop.

Duration: 6 months in 2023/2024

Sub-activity 1.05 *Validation study on the matrix honey*

Objectives: On-going validation of LC amenable pesticides in honey using LC-Q-TOF

Description: Honey is a matrix of animal origin where pesticides residues from the direct use on plants can be expected. It is a matrix with high sugar content and therefore differs from other commodities of food of animal origin. The spectrum of pesticides to be found is more polar than in other animal commodities. Investigations as regards sample preparation have been done in 2021/2022 using Quechers-AO method and direct injection. However, the validation study could not be finalised due to technical problems with the LC-Q-TOF instrument. An on-going validation according to SANTE/11312/2021 will be performed in 2023. Pesticides to be validated are included in the EU MACP and the Working Document SANCO/12745/2013, Rev 14. The number of pesticides to be validated comprises around 400 substances.

Expected Output: Validation report.

Duration: 5 months in 2023

Sub-activity 1.06 *Organisation of EUPT AO-18, preparation for EUPT AO-19 (Art. 94.2.c)*

Objectives: Performing a Proficiency Test in the matrix honey

Description: Performance of a proficiency test (EUPT) for MRM-pesticides. EUPT AO-18 will be performed with all NRLs and OfLs of EU Member States and Associated States. It is designed for 90 to 130 participating laboratories.

The target analyte list will comprise about 100 to 130 MRM-pesticides (intention 125) which are part of the MACP and the Working Document SANCO/12745/2013 Rev14. According to the General Protocol for EU proficiency tests the target pesticide list will be fixed in January 2023 with the assistance of the members of the Scientific Committee for EUPTs. The PT will be performed and evaluated in accordance with the General Protocol for EU proficiency tests for

pesticide residues in food and feed. The time schedule will be coordinated with the other pesticide EURLs and the Commission to avoid overlapping periods. The planned matrix is honey.

Preparation of EUPT AO 19 will start at the end of 2023. This comprises drafting the target list and time schedule, discussions with the EUPT panel, pre-tests with blank material (muscle).

Expected Output: report on EUPT AO-18, certificates for participants, presentation at EURL workshop.
Duration: 2023.

Sub-activity 1.07 *Organisation of EUPT AO-19, preparation for EUPT AO-20 (Art. 94.2.c)*

Objectives: Performing a Proficiency Test in the matrix muscle (swine, poultry)

Description: Performance of a proficiency test (EUPT) for MRM-pesticides. EUPT AO-19 will be performed with all NRLs and OfLs of EU Member States and Associated States. It is designed for 90 to 130 participating laboratories.

The target analyte list will comprise about 70 to 100 MRM-pesticides (intention 80) which are part of the MACP and the Working Document SANCO/12745/2013 Rev13. According to the General Protocol for EU proficiency tests the target pesticide list will be fixed in January 2023 with the assistance of the members of the Scientific Committee for EUPTs. The PT will be performed and evaluated in accordance with the General Protocol for EU proficiency tests for pesticide residues in food and feed. The time schedule will be coordinated with the other pesticide EURLs and the Commission to avoid overlapping periods. The planned matrix is muscle from poultry, swine or fish that was often requested in surveys.

Preparation of EUPT AO 20 will start at the end of 2024. This comprises drafting the target list and time schedule, discussions with the EUPT panel, pre-tests with blank material (matrix not decided yet).

Expected Output: report on EUPT AO-19, certificates for participants.
Duration: 2024.

Sub-activity 1.08 *Interlaboratory study on analysis of pesticide residues in fish [ILS-01] (Art. 94.2.c)*

Objectives: Performance of an interlaboratory study for determination of pesticide residues in fish meat

Description: Around 25 kg per year of fish is consumed within the European Union per year. Regulation (EC) No 396/2005/EC has not established maximum residue levels (MRLs) for the matrix fish. However, pesticides such as chlorates and quaternary ammonium compounds can be frequently detected in e.g. panga fish and shrimps. Until now, the EURL-AO has never organised an EUPT in fish meat (muscle). However, feedback given by NRLs has shown that laboratories are seeking support from the EURL as regards an interlaboratory comparative testing in fish. Thus, the EURL aims to organise a voluntary interlaboratory study to be performed in the second half of 2023/beginning of 2024 (for discussion of results and conclusions in the second half of 2024). The main aim of this interlaboratory study is to support NRLs in terms of quality assurance by giving them an opportunity for testing the determination of pesticide residues in fish meat. It allows laboratories to check the performance of their analysis. As a first step after data evaluation, draft reports will be circulated among participants for possible comments; then the final version and certificates of participation will be prepared for distribution. Results will be

discussed and conclusions be drawn at the EURL/NRL workshop organized in the second half of 2024.

Expected Output: Report on ILS-01, important for quality assurance of laboratories involved in official control.

Duration: Throughout 2023 and 2024.

Sub-activity 1.09 *Effects of Food Processing on the content of Pesticides in the Final Product*

Objectives: Evaluation of effects on pesticides during typical food processing procedures

Description: MRLs for pesticides are set on the raw product, only. Once a processing step has been applied or the sample to be analysed is a composite of more than one ingredient, there is a need for a back calculation of the residue based on the raw products. Besides the difficulties to get the information for the correct recipe or the concentration/dilutions during processing there might occur influences on the pesticides itself, e.g. during drying, cooking or baking.

Processing factors according Art. 20 of Regulation (EC) 396/2005 will be listed in Annex VI of this regulation. At the time being this Annex VI is empty. The knowledge of direct effects on the pesticide during processing might help to calculate processing factors for different similar processing steps. The knowledge of the net effects on pesticides gives the chance to calculate processing factors for pesticides by multiplying the net effects with concentration factors caused by e.g. water losses during drying or heating steps and dilution factor e.g. as ratio of an ingredient in a receipt.

It is planned to produce sausages and dairy products from cow´s milk as well as cheese to be spiked with a few number of pesticides of interest. Some products can be produced using remainders of test samples from previous EUPTs. As the recipes are well known effects on the pesticides can be calculated. Of course those “processing factors” can be used for a first look of what happens with the pesticides during processing. In any case this factors cannot be used for any enforcement purposes.

Expected Output: Report on the output of the project.

Duration: 4 months in 2024

2 TO PROVIDE SCIENTIFIC AND TECHNICAL ASSISTANCE TO NRLs

Please, provided activities related to Regulation (EU) 2017/625:
(Number of Sub-activity boxes can be adjusted by EURL)

- *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 2.01 *Workshop with NRLs AO (Art. 94.2.d and 94.2.g)*

Objectives: Discussion of EUPT AO-18, method developments and general exchange of information
A joint EURL-NRL workshop is planned for 2023 organised by EURL-SRM in Stuttgart, Germany. The joint workshop will allow the comprehensive exchange of information on the results of EUPT AO-18. In addition, also other important analytical developments and aspects of general importance will be exchanged.
Expected Output: Carrying out the workshop with comprehensive exchange of information and strengthening of the cooperation between the EURL, NRLs and COM. The presentations will be available in CIRCA BC.
Duration: October 2023

Sub-activity 2.02 *Workshop with NRLs AO (Art. 94.2.d and 94.2.g)*

Objectives: Discussion of EUPT AO-19, method developments and general exchange of information
The EURL-AO workshop is planned for 2024 in Freiburg, Germany. The workshop will allow the comprehensive exchange of information on the results of EUPT AO-19. In addition, also other important analytical developments and aspects of general importance will be exchanged.
Expected Output: Carrying out the workshop with comprehensive exchange of information and strengthening of the cooperation between the EURL, NRLs and COM. The presentations will be available in CIRCA BC. Feedback by participants will be evaluated.
Duration: October 2024

Sub-activity 2.03 *Training for NRLs AO (Art. 94.2.e)*

Objectives: Training on specific methods / Training requested by NRLs

Description: Representatives of NRLs will be invited to attend a practical training in Freiburg in 2023. It will take place in October 2023. The training will cover technical aspects as regards the analysis of pesticides in products of animal origin, including those with low analytical capabilities indicated in Chapter 4 of document SANCO/12745/2013 Rev14, and the exchange of experiences among participants. Special needs and problems of the laboratories will be considered in the design of the training program. In addition an individual training for selected laboratories will be offered if requested and agreed by the Commission.

Expected Output: An evaluation will be performed. Lessons and presentations will be available on CIRCA BC. A report will be written and uploaded on CIRCA BC.

Duration: During second half of 2023

Sub-activity 2.04 *Training for NRLs AO (Art. 94.2.e)*

Objectives: Training on specific methods

Description: Representatives of NRLs will be invited to attend a theoretical training in Freiburg in 2024. It will take place in the second half of 2024 combined with the workshop. The training will cover aspects of the SANTE document e.g. validation or measurement uncertainties. The participants will be asked for topics of interest and the requests will be taken into account.

Expected Output: An evaluation will be performed. Lessons and presentations will be available on CIRCA BC. A report will be written and uploaded on CIRCA BC.

Duration: During second half of 2024

Sub-activity 2.05 *Visit of a NRL (Art. 94.2.e)*

Objectives: Visit of a NRL with obvious analytical problems in 2023

Description: An NRL with obvious analytical difficulties will be visited allowing to identify problems directly in the laboratory. According to the experience, the identification of the real reason for underperformance is difficult on basis of questionnaires and/or exchange of emails and phone calls. The NRL will be selected after the evaluation of EUPT AO-18 and the Commission will be informed about the selected NRL.

Expected Output: Issues will be faced at the NRL and solutions to solve possible problems will be developed. A mission report will be written.

Duration: During 2023

Sub-activity 2.06 *Visit of a NRL (Art. 94.2.e)*

Objectives: Visit of a NRL with obvious analytical problems in 2024

Description: An NRL with obvious analytical difficulties will be visited allowing to identify problems directly in the laboratory. According to the experience, the identification of the real reason for underperformance is difficult on basis of questionnaires and/or exchange of emails and phone calls. The NRL will be selected after the evaluation of EUPT AO-19 and the Commission will be informed about the selected NRL.

Expected Output: Issues will be faced at the NRL and solutions to solve possible problems will be developed. A mission report will be written.

Duration: During 2024

Sub-activity 2.07 *Test Material Service (Art. 94.2.d)*

Objectives: Test Material Service

Description: Left overs from previous EUPT AO will be offered to NRLs (and OfLs) via CIRCA BC to be used for their internal quality control. On the request of NRLs (and OfLs) test items from previous EUPT AO will be sent to these laboratories. The analysis of the test items assists laboratories to check the quality of their methods and especially to identify any bias in results. As the left overs are not offered as reference material, no quality control of the material has been performed yet. To check the stability of the test items over the storage period it is planned to perform a quality test of selected pesticides present in five test items and compare the results with the data given in the final report. Leftovers from the respective stored PT spiking solutions will be analysed on the selected pesticides, too. Stability of the selected pesticides in matrices and in solvent should be compared and discussed. The results of the test can be provided to the laboratories that order the corresponding test material.

Expected Output: Improvement of the quality of pesticide residue analysis. The number of requests will be reported in the final report 2023/24, quality control results will be made available to NRLs.

Duration: During 2023 and 2024

3 TO PROVIDE SCIENTIFIC AND TECHNICAL ASSISTANCE TO THE EUROPEAN COMMISSION AND OTHER ORGANISATIONS

Please, provided activities related to Regulation (EU) 2017/625:
(Number of Sub-activity boxes can be adjusted by EURL)

- *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 3.01 *Technical and Financial Report for 2021-2022, Art. 94.2.f*

Objectives: Provision of information to the European Commission concerning funds granted.
Description: In the frame of providing detailed information to the European Commission concerning the funds granted for the work program of 2021-2022, the EURL AO will draft and submit a full financial and technical report by 31 March 2023.
Expected Output: Technical and Financial Report for 2021-2022.
Duration: 2 months in 2023

Sub-activity 3.02 *Planned activities and estimated budget for 2023-2024, Art. 94.2.f*

Objectives: Provision of information to the European Commission concerning WP 2023
Description: In the frame of Regulation 625/2017, the EURL AO will draft and submit a budget estimation for the Work Program planned for 2023.
Expected Output: working program and budget estimation for 2023 onwards.
Duration: 1 month in 2023

Sub-activity 3.03 *Planned activities and estimated budget for 2025 onwards, Art. 94.2.f*

Objectives: Provision of information to the European Commission concerning WP 2025
Description: In the frame of Regulation 625/2017, the EURL AO will draft and submit a budget estimation for the Work Program planned for 2025.
Expected Output: working program and budget estimation for 2025 onwards.
Duration: 1 month in 2024

Sub-activity 3.04 *NRL-OfL-Contacts¸ (Art. 94.2.f)*

Objectives: Maintenance and Update of contacts to official laboratories (OFLs) and National Reference Laboratories (NRLs)
Description: For the EURL/NRL network, the list of all NRLs and contact points in the field "pesticides in food of animal origin and commodities with high fat content" will be kept updated. The list of NRLs will be published on the web page of EURL AO. In addition, all OfLs as reported by the NRLs will be added to another list and will be made available to the Commission and NRLs.
This task will be performed in close cooperation with the EURL for Single Residue Methods (EURL SRM).
Expected Output: Transparency of NRLs and OfLs, clarification on inclusion of OfLs in EUPTs
Duration: Throughout 2023 and 2024

Sub-activity 3.05 Support of Commission and EFSA including Article *12 Proposals (Art. 94.2.f)*

Objectives: Support of Commission and EFSA
Description: Scientific support to the Commission and EFSA as regards the evaluation of possible applicability of proposed post-registration methods in routine analysis laboratories and residue definitions, especially in the case of article 12 proposals. If it is necessary to establish achievable LOQs for pesticides considered of low importance in food of animal origin and thus not in the scope of EURL AO, then commercially available standards will be purchased. Validation according to the SANTE Guidance Document SANTE/11312/2021 will be performed in as much cases as possible. For method development and validation see 1.02.
Expected Output: Responses to consultation requirements, to EFSA`s Reasoned Opinions and to European Commission`s Draft Regulations.
Duration: Throughout 2023 and 2024

Sub-activity 3.06 *Documentation services I (Art. 94.2.f)*

Objectives: Maintenance and update of EURL website
Description: Maintenance of the EURL-website in cooperation with the other EURLs for pesticide residues, exchange of information via the website and updating on regular basis with the particular aim of disseminating information to NRLs. Information about important improvements of analytical methodology and major changes in EU legislation. After evaluation of a survey an update of the website is planned starting in 2023 by all EURLs.
Expected Output: Always updated EURL website.
Duration: Throughout 2023 and 2024

Sub-activity 3.07 *Documentation services II (Art. 94.2.f)*

Objectives: Maintenance and update of CIRCA BC platform
Description: Maintenance of the CIRCA-BC domain in cooperation with the other EURLs for pesticide residues; continuous provision of the status of the enrolled members; updating of the content.
Expected Output: Actual information in CIRCA BC.
Duration: Throughout 2023 and 2024

Sub-activity 3.08 *Co-ordinating meetings I (Art. 94.2.f)*

Objectives: Participation in annual co-ordinating meetings and general management activities of the EURLs for Pesticides
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 (e.g. work programs, EUPTs or web-applications). In certain cases online-meetings or tele-conferences will be carried out. Date and place of these events will be decided later. The SANTE document (SANTE/11312/2021) will be discussed, revised and published in 2024.
Expected Output: Exchange and harmonizing of information; meeting reports; updated SANTE document.
Duration: Throughout 2023 and 2024

Sub-activity 3.09 *Co-ordinating meetings II (Art. 94.2.f)*

Objectives: Participation in annual co-ordinating meetings and general management activities of the Commission
Description: If planned by the Commission, participation in annual co-ordinating meetings and general management activities of the Commission (e.g. meetings between COM and directors of EURLs).
Expected Output: Exchange and harmonization of information; meeting reports.
Duration: Throughout 2023 and 2024

Sub-activity 3.10 *International Cooperation (Art. 94.2.h)*

Objectives: Cooperation with international organizations, in particular EFSA, CEN, WHO, UNEP, and other institutions, and dissemination of information (also as online meetings)
Description: If required, cooperation with international organizations**,** also for harmonization of requirements in the field of pesticide analysis. Possible participation in the 9th LAPRW in Panama (Panama 21-24 May 2023), in the Nordic Pesticide Residue Workshop in June 2023, Eurachem PT-Workshop (Windsor 25-28 September 2023), 11th RAFA in Prague (Prague 5-8 November 2024) or other conferences for dissemination of information and achievements of the EURL. In 2024 the 15th EPRW will be held in Zurich, Switzerland from 16-20 September.
Expected Output: Exchange of relevant information via oral and/or poster presentations.
Duration: Throughout 2023 and 2024

Sub-activity 3.11 *Scientific Committee for EUPT (Art. 94.2.f)*

Objectives: Harmonized Procedures for EUPTs for Pesticide Residues
Description: Online and mail discussions about matrices and target lists for EUPTs. EURL AO participates in all meetings to discuss and evaluate individual EUPT results and overall EUPT performances.
Expected Output: Harmonized EUPTs for Pesticide Residues
Duration: Throughout 2023 and 2024

Sub-activity 3.12 *Scientific Committee for the SANTE Document (Art. 94.2.f)*

Objectives: Harmonized Analytical Quality Control for Pesticide Residue Analysis
Description: Contribute in the revision of "Method Validation and Quality Control Procedures for Pesticide Residue Analysis in Food and Feed": Participation in all meetings of the Advisory Group for the improvement of the document and contributions by mail contacts.
Expected Output: Harmonized Procedures for Analytical Quality Control in Pesticide Residue Analysis
Duration: Throughout 2023 and 2024

Sub-activity 3.13 *Analytical and Scientific Support for NRLs (Art. 94.2.f)*

Objectives: Solving Analytical Problems and Interpretation of Data / Documents
Description: General scientific information will be provided to NRLs. In particular in case of problems, NRLs will be supported with methods for analysis of MRM-pesticides. In certain cases also the analytes could be supplied (e.g. in case of lack of information about pesticides and the availability of standards, degradation of analytes).
Expected Output: Report on the number and type of requests that the NRLs have in 2023/24 and on how many of those the EURL-AO managed to respond.
Duration: Throughout 2023 and 2024

Sub-activity 3.14 Monitoring of pesticide residues in honey *(Art. 94.2.f)*

Objectives: Analysis of pesticide residues in different commercially available honey samples.
Description: The EURL AO will validate/has validated a high number of MRM amenable pesticides in honey (see subactivity 1.06). Together with the EURL-SRM a monitoring of the most important commercially available honeys in Europe (e.g. blossom honey, forest honey, rape honey) will be performed to get an overview about the pesticide residues situation in this matrix. Therefore 150 samples from the market were already collected by EURL AO/EURL SRM. The target analyte list will also comprise pesticide metabolites in order to find out if not regulated metabolites are of further interest. The samples were already shared with EURL-SRM to perform the analyses of SRM amenable pesticides as well as other pesticides of interest not in the scope of EURL AO. Analysis of the honey extracts has already been done partly using GC-Orbitrap. The analysis of LC amenable pesticides must be postponed to 2023 due to technical problems with the instrument in 2022.

Expected Output: A monitoring report will be published.
Duration: 2 month in 2023

Sub-activity 3.15 Import of validation data from EURL AO into the EURL Datapool *(Art. 94.2.f)*

Objectives: Support of EURL Datapool by entering validation data from EURL AO.

Description: The EURL Datapool is a helpful tool for the laboratories with a lot of information regarding pesticides and validation data. The majority of validation data in the datapool is from food of plant origin. Data from food of animal origin is poorly represented. The EURL AO has generated a lot of validation data in the past years. The data was made available to the NRLs in the form of validation reports but is not available in the datapool so far. It is the aim to enter all datasets from different kind of animal matrices into the EURL datapool. The data will be from quantification studies using GC-MS/MS, LC-MS/MS and GC-HRMS.

Expected Output: Increasing the availability and simplify the access (for NRLs) to validation data for pesticides in food of animal origin.

Duration: on-going task

4 REAGENTS AND REFERENCE COLLECTIONS

Please, provided activities related to Regulation (EU) 2017/625:
(Number of Sub-activity boxes can be adjusted by EURL)

- *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 4.1 *(name of Sub-activity)*

Objectives: Description: Expected Output: Duration:

Sub-activity 4.2 *(name of Sub-activity)*

Objectives: Description: Expected Output: Duration:

Sub-activity 4.3 *(name of Sub-activity)*

Objectives: Description: Expected Output: Duration:

Sub-activity 4.x *(name of Sub-activity)*

Objectives: Description: Expected Output: Duration:

5 REQUIREMENTS RELATED TO OTHER LEGISLATION

Please specify applicable legislation:
(Number of Sub-activity boxes can be adjusted)

Sub-activity 5.1 *(name of Sub-activity)*

Objectives:
Description:
Expected Output:
Duration:

REMARKS

(if necessary)