



# Activity Report 2016



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## **Executive summary**

This report presents the main achievements of the European Union Reference Laboratory for feed additives authorisation (later referred as EURL) in 2016. The tasks of the EURL regarding the authorisation of feed additives are specified in Regulation (EC) No 378/2005, last amended by Commission Implementing Regulation (EU) 2015/1761.

The main activities of the EURL in 2016 have been:

- The management of declaration forms
- The sample registration and maintenance of the sample bank of reference feed additives;
- The scientific evaluation of analytical methods submitted by the applicants and drafting corresponding evaluation reports; and
- The organisation of the 16<sup>th</sup> annual EURL workshop with National Reference Laboratories (NRLs), to discuss topics related to the authorisation of feed additives.

In addition, the EURL was involved in:

- Compilation of the standard operating procedures of recommended methods for their further publication in the EURL-FA website;
- Finalisation of the project to launch the revision of the Community method for the determination of Diclazuril;
- Optiphos project regarding the determination of phytase.

## Declaration forms and sample management

When applying for the authorisation of a feed additive, Applicants have to send a Declaration Form (DF) to the EURL. The details included allow the establishment of the fee to be paid. In 2016, a total of 59 DF were processed. Moreover the EURL handled 101 reference samples, of which 42 were new related to new products and 59 were replacement samples.

## Evaluation of Dossiers

In 2016 the EURL evaluated 37 applications and issued a total of 37 reports (including two amendments and one corrigendum for 2011, 2012 and 2014 reports, respectively) with the support of the National Reference Laboratories (NRLs). Table 1 presents the number of applications submitted by the Applicants and the number of reports evaluated by the EURL since 2009. The lower number of the reports issued in comparison with the previous two years can be explained by the end of the re-authorisation exercise. Nine (out of 37) reports - mainly related to microorganisms - were evaluated and drafted by the following five NRLs: CRA-W,BE (3); CReAA,IT (3); AGES,AT; SCL,FR and SMUL,DE. The evaluation process was co-ordinated by the EURL.

Table 1 also includes the number of corresponding EFSA opinions and Commission Implementing Regulations (CIR) published in 2009 to 2016 based on the EURL recommendations. The list of all the EURL reports issued in 2016 is provided in Annex II and the reports are available from the EURL webpage:

<https://ec.europa.eu/jrc/en/eurl/feed-additives/evaluation-reports>.

Tables 2 and 3 list the EFSA opinions and the CIR published in 2016 based on or including the EURL recommendations.

**Table 1.** Number of applications evaluated, evaluation reports, EFSA opinions and Commission Implementing Regulations (CIR) issued since 2009

|               | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | <b>2016</b> |
|---------------|------|------|------|------|------|------|------|-------------|
| Applications  | 24   | 70   | 124  | 92   | 36   | 51   | 50   | <b>37</b>   |
| EURL Reports  | 24   | 68   | 87   | 59   | 32   | 44   | 47   | <b>37</b>   |
| EFSA opinions | 24   | 22   | 54   | 74   | 50   | 34   | 35   | <b>45</b>   |
| CIR           | 18   | 20   | 46   | 36   | 39   | 26   | 38   | <b>21</b>   |

**Table 2.** EURL executive summaries included in EFSA opinions published in 2016

|    | EFSA Journal reference | Feed additives/Active substances  | Dossier number for EURL report   |
|----|------------------------|---|--|
| 1  | 2016;14(1):4349        | Vitamin B 2 (riboflavin and riboflavin 5'-phosphate ester monosodium salt) produced by <i>Bacillus subtilis</i>   | 2010-0304  |
| 2  | 2016;14(1):4341        | A natural mixture of dolomite plus magnesite and magnesium-phyllsilicates (Fluidol)   | 2012-0043  |
| 3  | 2016;14(1):4342        | A natural mixture of illite, montmorillonite and kaolinite (Argile Verte du Velay)  | 2012-0025  |
| 4  | 2016;14(1):4340        | A preparation of <i>Lactobacillus fermentum</i> NCIMB 41636, <i>Lactobacillus plantarum</i> NCIMB 41638 and <i>Lactobacillus rhamnosus</i> NCIMB 41640  | 2014-0022  |
| 5  | 2016;14(1):4353        | Benzoic acid  | 2010-0147  |
| 6  | 2016;14(1):4339        | Eight compounds belonging to chemical group 31 (aliphatic and aromatic hydrocarbons)  | 2010-0022  |
| 7  | 2016;14(1):4345        | L-arginine produced by <i>Corynebacterium glutamicum</i> KCTC 10423BP   | 2014-0012  |
| 8  | 2016;14(2):4394        | Guanidinoacetic acid  | 2011-0043  |
| 9  | 2016;14(2):4396        | Iron compounds (E1): ferrous carbonate; ferric chloride, hexahydrate; ferrous fumarate; ferrous sulphate, heptahydrate; ferrous sulphate, monohydrate; ferrous chelate of amino acids, hydrate; ferrous chelate of glycine, hydrate | 2010-0068<br>2010-0095<br>2010-0236<br>2010-0295<br>2010-0296<br>2010-0380 |
| 10 | 2016;14(2):4395        | Manganese compounds (E5): manganous carbonate; manganous chloride, tetrahydrate; manganous oxide; manganous sulphate, monohydrate; manganese chelate of amino acids, hydrate; manganese chelate of glycine, hydrate                 | 2010-0088<br>2010-0069<br>2010-0235  |
| 11 | 2016;14(2):4397        | Probiomix B ( <i>Lactobacillus plantarum</i> KKP/593/p and <i>Lactobacillus rhamnosus</i> KKP 825)  | 2010-0405  |
| 12 | 2016;14(2):4398        | Selenium compounds (E8) as feed additives for all animal species: sodium selenite   | 2010-0104<br>2010-0362<br>2010-0369  |
| 13 | 2016;14(2):4389        | Furfuryl and furan derivatives belonging to chemical group 14   | 2010-0118  |
| 14 | 2016;14(2):4391        | Copper complexes of chlorophylls and copper complexes of chlorophyllins   | 2010-0358  |
| 15 | 2016;14(2):4391        | Pyridine and pyrrole derivatives belonging to chemical group 28   | 2010-0117  |
| 16 | 2016;14(3):4442        | Selenium compounds (E8) as feed additives for all animal species: sodium selenite   | 2010-0104<br>2010-0362<br>2010-0369  |
| 17 | 2016;14(5):4474        | Manganese hydroxychloride   | 2012-0040  |
| 18 | 2016;14(5):4472        | Diarr-Stop S Plus® (Na2EDTA, tannin-rich extract of <i>Castanea sativa</i> , thyme oil and oregano oil)   | 2010-0406  |
| 19 | 2016;14(6):4479        | <i>Lactobacillus plantarum</i> DSM 29025  | 2015-0035  |
| 20 | 2016;14(6):4441        | Thiazoles, thiophene and thiazoline belonging to chemical group 29  | 2010-0116  |
| 21 | 2016;14(6):4475        | Secondary alicyclic saturated and unsaturated alcohols, ketones, ketals and esters with ketals containing alicyclic alcohols or ketones and esters containing secondary alicyclic alcohols from chemical group 8                    | 2010-0125  |
| 22 | 2016;14(6):4482        | Iron oxide black, red and yellow  | 2010-0202<br>2010-0203<br>2010-0204  |
| 23 | 2016;14(6):4508        | Iron compounds (E1) as feed additives for all species: ferric oxide   | 2010-0068<br>2010-0095<br>2010-0236<br>2010-0295<br>2010-0296<br>2010-0380 |
| 24 | 2016;14(6):4507        | <i>Bacillus subtilis</i> DSM 28343  | 2015-0006  |
| 25 | 2016;14(6):4506        | <i>Lactobacillus plantarum</i> NCIMB 42150  | 2015-0013  |
| 26 | 2016;14(6):4512        | Alfa,beta-unsaturated straight-chain and branched-chain aliphatic primary alcohols, aldehydes, acids and esters belonging to chemical group 3   | 2010-0124  |
| 27 | 2016;14(6):4509        | Dicopper oxide  | 2014-0034  |
| 28 | 2016;14(7):4351        | BIOSTRONG® 510 (essential oil of thyme and star anise)  | 2011-0036  |
| 29 | 2016;14(8):4561        | Lecithins   | 2010-0364  |
| 30 | 2016;14(8):4560        | Lecithins (Lipidol)   | 2010-0398  |
| 31 | 2016;14(8):4559        | Non-conjugated and accumulated unsaturated straight-chain and branched-chain, aliphatic primary alcohols, aldehydes, acids, acetals and esters belonging to chemical group 4  | 2010-0041  |
| 32 | 2016;14(8):4557        | Aromatic ketones, secondary alcohols and related esters belonging to chemical group 21  | 2010-0075  |
| 33 | 2016;14(9):4556        | <i>Lactobacillus diolivorans</i> DSM 32074  | 2015-0028  |
| 34 | 2016;14(9):4562        | Belfeed B MP/ML (endo-1,4-beta-xylanase)  | 2010-0285  |
| 35 | 2016;14(9):4555        | Lavipan® ( <i>Lactococcus lactis</i> B/00039, <i>Carnobacterium divergens</i> KKP 2012p, <i>Lactobacillus casei</i> B/00080, <i>Lactobacillus plantarum</i> B/00081 and <i>Saccharomyces cerevisiae</i> KKP 2059p)                  | 2013-0048  |
| 36 | 2016;14(9):4558        | BioPlus 2B® ( <i>Bacillus subtilis</i> DSM 5750 and <i>Bacillus licheniformis</i> DSM 5749)   | 2009-0023  |
| 37 | 2016;14(11):4619       | Maltol belonging to chemical group 12   | 2010-0064  |
| 38 | 2016;14(11):4625       | Axtra® PHY 20000 TPT2 (6-phytase)   | 2015-0048  |
| 39 | 2016;14(11):4613       | tartrazine (E 102)  | 2010-0342  |
| 40 | 2016;14(11):4620       | Feedlyve AGL (endo-1,3(4)-beta-glucanase)   | 2010-0227  |
| 41 | 2016;14(11):4621       | Feedlyve AXC (endo-1,4-b-xylanase)  | 2010-0213  |
| 42 | 2016;14(11):4618       | Secondary aliphatic saturated or unsaturated alcohols, ketones, ketals and esters with a second secondary or tertiary oxygenated functional group belonging to chemical group 10  | 2010-0026  |
| 43 | 2016;14(11):4623       | A preparation of algae interspaced bentonite  | 2014-0047  |
| 44 | 2016;14(11):4616       | <i>Lactobacillus brevis</i> NCIMB 42149   | 2015-0014  |
| 45 | 2016;14(11):4622       | 3-phytase FLF1000   | 2015-0026  |

EFSA opinions on: <http://www.efsa.europa.eu/en/publications/efsajournal.htm>;

EURL reports on: <https://ec.europa.eu/jrc/en/eurl/feed-additives/evaluation-reports>

**Table 3.** Commission Implementing Regulations published in 2016 and supported by the EURL recommendations

|    | Commission Implementing Regulation (EU) No | Feed additives/active substance   | Dossier number for EURL Report                                |
|----|--|---|---|
| 1  | 2016/104 of 27 January 2016                | A preparation of <i>Saccharomyces cerevisiae</i> MUCL 39885   | 2009-0028   |
| 2  | 2016/329 of 8 March 2016                   | 6-phytase   | 2012-0044   |
| 3  | 2016/348 of 10 March 2016                  | The preparation of 6-phytase (EC 3.1.3.26) produced by <i>Komagataella pastoris</i> (DSM 23036)   | 2010-0008   |
| 4  | 2016/896 of 8 June 2016                    | Iron sodium tartrates   | 2012-0035   |
| 5  | 2016/897 of 8 June 2016                    | Preparation of <i>Bacillus subtilis</i> (C-3102) (DSM 15544)  | 2009-0013   |
| 6  | 2016/898 of 8 June 2016                    | A preparation of <i>Bacillus licheniformis</i> (ATCC 53757) and its protease (EC 3.4.21.19)   | 2013-0017   |
| 7  | 2016/899 of 8 June 2016                    | 6-phytase produced by <i>Trichoderma reesei</i> (ATCC SD-6528)  | 2013-0049   |
| 8  | 2016/900 of 8 June 2016                    | Benzoic acid  | 2010-0029   |
| 9  | 2016/972 of 17 June 2016                   | L-arginine produced by <i>Corynebacterium glutamicum</i> KCTC 10423BP   | 2014-0012   |
| 10 | 2016/973 of 17 June 2016                   | Zinc bislysinate  | 2014-0021   |
| 11 | 2016/997 of 21 June 2016                   | Endo-1,4-beta-xylanase EC 3.2.1.8 produced by <i>Trichoderma reesei</i> (ATCC PTA 5588) and endo-1,3(4)-beta-glucanase EC 3.2.1.6 produced by <i>Trichoderma reesei</i> (ATCC SD 2106)  | 2010-0007   |
| 12 | 2016/1007 of 22 June 2016                  | Ammonium chloride   | 2010-0242<br>2010-0037  |
| 13 | 2016/1095 of 6 July 2016                   | Zinc acetate dihydrate, Zinc chloride anhydrous, Zinc oxide, Zinc sulphate heptahydrate, Zinc sulphate monohydrate, Zinc chelate of amino acids hydrate, Zinc chelate of protein hydrolysates, Zinc chelate of glycine hydrate (solid) and Zinc chelate of glycine hydrate (liquid) | 2010-0059<br>2010-0063<br>2010-0072<br>2010-0142<br>2010-0228 |
| 14 | 2016/1220 of 26 July 2016                  | L-threonine produced by <i>Escherichia coli</i>   | 2010-0058<br>2010-0081<br>2013-0028                           |
| 15 | 2016/1768 of 4 October 2016                | Guanidinoacetic acid  | 2011-0043   |
| 16 | 2016/1833 of 17 October 2016               | A preparation of kidney bean lectins ( <i>Phaseolus vulgaris</i> lectins)   | 2010-0079   |
| 17 | 2016/1881 of 24 October 2016               | 6-phytase produced by <i>Aspergillus oryzae</i> (DSM 22594)   | 2011-0042<br>2010-0019  |
| 18 | 2016/1964 of 9 November 2016               | A preparation of dolomite-magnesite and a preparation of montmorillonite-illite   | 2012-0043<br>2010-0244  |
| 19 | 2016/2023 of 18 November 2016              | Sodium benzoate, potassium sorbate, formic acid and sodium formate  | 2010-0375<br>2010-0145<br>2010-0193<br>2009-0027              |
| 20 | 2016/2150 of 7 December 2016               | The preparations of <i>Lactobacillus plantarum</i> DSM 29025 and <i>Lactobacillus plantarum</i> NCIMB 42150   | 2015-0035<br>2015-0013  |
| 21 | 2016/2261 of 15 December 2016              | Copper(I) oxide   | 2014-0034   |

Commission Implementing Regulations on:

[http://ec.europa.eu/food/safety/docs/animal-feed-eu-reg-comm\\_register\\_feed\\_additives\\_1831-03.pdf](http://ec.europa.eu/food/safety/docs/animal-feed-eu-reg-comm_register_feed_additives_1831-03.pdf)

EURL reports on:

<https://ec.europa.eu/jrc/en/eurl/feed-additives/evaluation-reports>

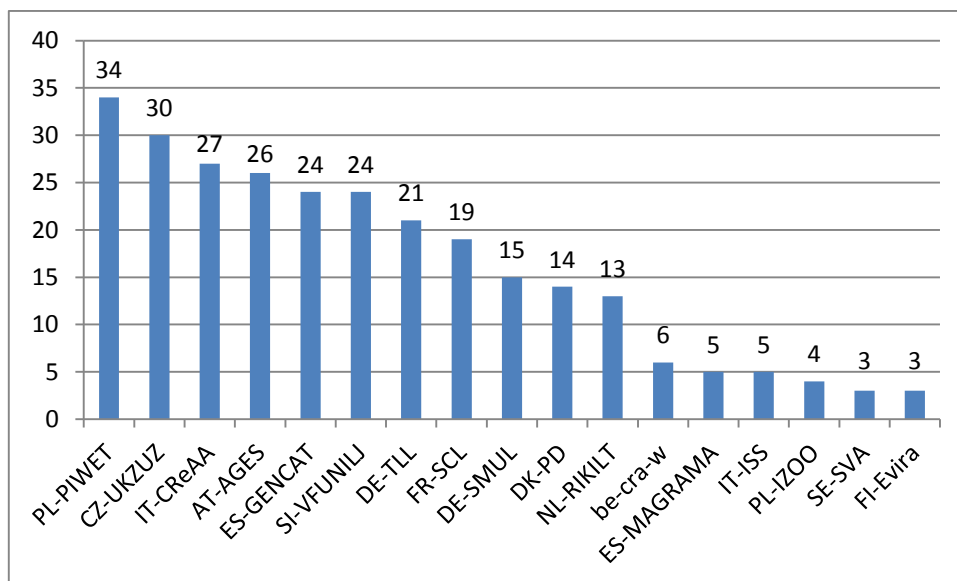
**Table 4.** Categories / functional groups of feed additives evaluated in 2016

| Category |                                | Functional Group  |  | 2016 |
|----------|--------------------------------|-------------------|--|------|
| 1        | technological                  | a                 | preservatives  |      |
|          |                                | b                 | antioxidants   |      |
|          |                                | c                 | emulsifiers  |      |
|          |                                | d                 | stabilisers  |      |
|          |                                | e                 | thickeners   |      |
|          |                                | f                 | gelling agents                                       |      |
|          |                                | g                 | binders  |      |
|          |                                | h                 | substances for control of radionuclide contamination |      |
|          |                                | i                 | anticaking agents                                    | 1    |
|          |                                | j                 | acidity regulators                                   |      |
|          |                                | k                 | silage additives                                     | 6    |
|          | l                              | denaturants       |  |      |
|          | m                              | mycotoxin binders |  |      |
| 2        | sensory                        | a                 | colourants   | 2    |
|          |                                | b                 | flavouring compounds                                 | 3    |
| 3        | nutritional                    | a                 | vitamins, pro-vitamins                               |      |
|          |                                | b                 | compounds of trace elements                          | 4    |
|          |                                | c                 | amino acids  | 4    |
|          |                                | d                 | urea and its derivatives                             |      |
| 4        | zootechnical                   | a                 | digestability enhancers                              | 8    |
|          |                                | b                 | gut flora stabilisers: micro-organisms               | 3    |
|          |                                | c                 | substances which favourably affect the environment   | 2    |
|          |                                | d                 | other zootechnical additives                         | 1    |
| 5        | coccidiostats & histomonostats |                   |  | 5    |

**Total 39**

Table 4 presents a detailed overview of the "categories" / "functional groups" evaluated by the EURL in 2016, resulting in 14 zootechnical, 8 nutritional, 7 technological, 5 sensory and 5 coccidiostats & histomonostats dossiers.

As foreseen by Commission Regulation (EC) No 378/2005, every draft "initial" report was reviewed by experts of the various NRLs. Their critical and constructive remarks contributed to the quality of the reports sent by the EURL to the European Food Safety Authority (EFSA) and DG SANTE. These comments are highly appreciated by the EURL and the NRL contributions are systematically acknowledged in the final reports. Figure 1 shows the review activity of the NRLs in 2016, where seven NRLs commented to 20 or more initial reports: PL-PIWET, CZ-UKZUZ, IT-CReAA, AT-AGES, ES-GENCAT, SI-VFUnIV and DE-TLL.



**Figure 1** Number of draft reports commented by NRLs during the 2016 review process

PL-PIWET – Państwowy Instytut Weterynaryjny, Pulawy (Poland)

CZ-UKZUZ – Ústřední kontrolní a zkušební ústav zemědělský (ÚKZÚZ), Praha (Czech Republic)

IT-CReAA – Centro di referenza nazionale per la sorveglianza ed il controllo degli alimenti per gli animali (CReAA), Torino (Italy)

AT-AGES – Österreichische Agentur für Gesundheit und Ernährungssicherheit (AGES), Wien (Austria)

ES-GENCAT – Laboratori Agroalimentari, Departament d'Agricultura, Ramaderia, PESCA, Alimentació i Medi Natural. Generalitat de Catalunya, Cabriels (Spain)

SI-VFUNIV – Univerza v Ljubljani. Veterinarska fakulteta. Nacionalni veterinarski inštitut. Enota za patologijo prehrane in higieno okolja, Ljubljana (Slovenia)

DE-TLL – Thüringer Landesanstalt für Landwirtschaft (TLL). Abteilung Untersuchungswesen. Jena (Germany)

FR-SCL – Laboratoire de Rennes (SCL L35), Service Commun des Laboratoires DGCCRF et DGDDI, Rennes (France)

DE-SMUL – Staatliche Betriebsgesellschaft für Umwelt und Landwirtschaft. Geschäftsbereich 6 – Labore Landwirtschaft, Nossen (Germany)

DK-PD – Fødevarestyrelsens Laboratorie Aarhus (kemisk) (Denmark)

NL-RIKILT – Wageningen UR, Wageningen (The Netherlands)

BE-CRAW - Centre wallon de Recherches agronomiques (CRA-W), Gembloux (Belgium)

ES-MAGRAMA – Laboratorio Arbitral Agroalimentario. Ministerio de Agricultura, Alimentación y Medio Ambiente, Madrid (Spain)

IT-ISS – Istituto Superiore di Sanità. Dipartimento di Sanità Pubblica Veterinaria e Sicurezza Alimentare, Roma (Italy)

PL-IZOO – Instytut Zootechniki – Państwowy Instytut Badawczy, Krajowe Laboratorium Pasz, Lublin (Poland)

SE-SVA Avdelningen för kemi, miljö och fodersäkerhet, Statens Veterinärmedicinska Anstalt (SVA), Uppsala (Sweden)

FI-EVIRA – Elintarviketurvallisuusvirasto/Livsmedelssäkerhetsverket (Evira), Helsinki/Helsingfors (Finland)



## **The Workshop 2016 of the EURL-FA Authorisation**

The 16<sup>th</sup> Workshop (WS) of the EURL Feed Additives (EURL-FA) authorisation was organised and held in Brussels on November 21 - 22, 2016. A total of 32 participants, representing 22 National Reference Laboratories (NRLs), DG SANTE, EFSA and the EURL, took part in the workshop. In addition, two representatives from the EU Association of Specialty Feed Ingredients and their Mixtures (FEFANA) attended the public part of the event.

## **Methods on the EURL-FA website**

In 2016, the EURL started to work on a project aiming to display on the EURL website more detailed analytical information, including standard operating procedures of recommended analytical methods for official control of feed additives in the frame of feed additives authorisation. In accordance with the Regulations (EC) 378/2005 and (EC) 1831/2003, the EURL is entitled to make the recommended analytical methods publically available when corresponding feed additives become authorised.

The following achievements are highlighted hereafter:

- creation of an internal database linking all feed additive dossiers, which the EURL received since 2004 (ca. 850), references to EFSA opinions and to Commission Implementing Regulations (CIR) (if issued);
- creation of templates with information, such as FAD number, feed additive (FA) name, the identity number of FA, the names of active substances, hyperlink to the full text and the date of the report, hyperlink to the corresponding CIR, the recommended analytical method, an executive summary of the related EURL report and names and hyperlinks to the files in which standard operating procedures for the determination of active substances in different matrices are described;
- deliverables: 38 CIRs published in 2015 were identified covering 55 FADs; 33 filled templates and 44 SOPs for the determination of feed additives in different matrices, covering the authorised feed additives in 2015, were compiled. The final aim is to put on the EURL website all SOPs of the methods which were recommended by the EURL since 2004.

The full texts of the SOPs will be available on the EURL website only for single-laboratory validated and verified methods for different matrices, i.e. a feed additive, premixtures, feedingstuffs and animal tissues. The methods will be searchable by using several keywords, e.g. identity number or name of the additive, name of an active substance or FAD number. However, the internationally recognised methods such as from ISO, CEN, AOAC, VDLUFA, Food Chemical Codex and Pharmacopoeia will not be published on the EURL website due to the protection of copyrights, while most of the methods from FAO JECFA, Official Community and National methods can be freely accessed from the information sources of the corresponding institutions.

## **Diclazuril project – Final Report**

In 2016, the EURL-FA finalised the JRC Technical Report (EUR 27954, JRC 101940) on the re-validation of a method for the determination of diclazuril by a collaborative study. The report contains the detailed description of the collaborative trial exercise, as well as the updated standard operating procedure (SOP) of the Community method for the determination of Diclazuril in premixtures and feed, included as an annex to the report. The main differences between the old and updated versions of the method are: i) higher amount of solid phase extraction material for clean-up of feed samples (5000 mg vs. 100 mg); and ii) the alternative possibility of using LC-MS based methods under the condition that the performance characteristics of those methods are equivalent (or better) than the ones of the original LC-UV based method.

The report has been sent to DG SANTE for further inclusion of the method in a planned revision of Commission Regulation (EC) No 152/2009.

## **Optiphos project - Progress Report**

The EURL started in 2015 the preparation for an inter-laboratory comparison aiming at the establishment of the conversion factor enabling the labelling control of Optiphos feed products when applying the ISO 30024 analytical method.

At the end of 2015 the EURL selected 10 laboratories from 9 countries for performing the assay (8 laboratories for participating in the full assay, i.e. Optiphos + ISO method, and 2 laboratories for participating in the comparison phase, i.e. ISO method).

During February 2016 the linearity check, was carried out by the Austrian NRL (AGES). The outcome of this assay revealed a big impact of the applied dilution factor on the determined phytase activity and thus the need to fix the dilution factor for each material in order to overcome this effect. In parallel the implementation phase of the assay, involving the participants applying the Optiphos method, has been also launched.

In April 2016 the preparation and characterisation of the Optiphos test materials intended to be used for the assay were successfully finalised.

The evaluation of the feedback from the participating laboratories led to a low rate of "acceptable results" that suggested the need of improving the participants' knowledge on the Optiphos method. Based on that, it has been decided to keep the assay in stand-by and launch an unforeseen training action on the Optiphos method addressed to the laboratories that participated in the implementation phase.










## **Acknowledgements**

The EURL would like to thank our colleagues within DG JRC-Geel for their strong support and interest in EURL-FA activities, related to secretarial support, review of reports and development of tailor-made informatics systems. The efforts and excellent collaboration with the Mail services and the Resources Management Geel are also acknowledged.

We are grateful to all the NRL experts for their valuable contribution in the evaluation of the dossiers and the constructive discussions during the workshop. All this allowed successful evaluations and guaranteed proper dissemination of knowledge and good practices. The list of NRLs is provided in Annex I.

## Annex I: List of the NRLs of the EURL-FA network

(updated on 21/04/2017 as in Commission Implementing Regulation (EU) 2015/1761)

| Country   | National Reference Laboratory   |
|---|---|
|    | <ul style="list-style-type: none"> <li>- Federaal Laboratorium voor de Voedselveiligheid Tervuren (FLVVT - FAVV). BE</li> <li>- Vlaamse Instelling voor Technologisch Onderzoek (VITO), Mol. BE</li> <li>- Centre wallon de Recherches agronomiques (CRA-W), Gembloux. BE</li> </ul>  |
|    | <ul style="list-style-type: none"> <li>- Ústřední kontrolní a zkušební ústav zemědělský (ÚKZÚZ), Praha. CZ</li> </ul>   |
|    | <ul style="list-style-type: none"> <li>- Fødevarestyrelsens Laboratorie Aarhus (kemisk). DK</li> <li>- Fødevarestyrelsens Laboratorie Ringsted (kemisk og mikrobiologisk). DK</li> </ul>  |
|    | <ul style="list-style-type: none"> <li>- Sachgebiet Futtermittel des Bayerischen Landesamtes für Gesundheit und Lebensmittelsicherheit (LGL), Oberschleißheim. DE</li> <li>- Landwirtschaftliche Untersuchungs- und Forschungsanstalt (LUF), Speyer. DE</li> <li>- Staatliche Betriebsgesellschaft für Umwelt und Landwirtschaft. Geschäftsbereich 6 - Labore Landwirtschaft, Nossen. DE</li> <li>- Thüringer Landesanstalt für Landwirtschaft (TLL). Abteilung Untersuchungswesen. Jena. DE</li> </ul> |
|  | <ul style="list-style-type: none"> <li>- Põllumajandusuuringute Keskus (PMK). Jäädikide ja saasteainete labor, Saku, Harjumaa. EE</li> <li>- Põllumajandusuuringute Keskus (PMK), Taimse materjali labor, Saku, Harjumaa. EE</li> </ul>   |
|  | <ul style="list-style-type: none"> <li>- Laboratorio Arbitral Agroalimentario. Ministerio de Agricultura, Alimentación y Medio Ambiente, Madrid. ES</li> <li>- Laboratori Agroalimentari, Departament d'Agricultura, Ramaderia, PESCA, Alimentació i Medi Natural. Generalitat de Catalunya, Cabriels. ES</li> </ul>  |
|  | <ul style="list-style-type: none"> <li>- Laboratoire de Rennes (SCL L35), Service Commun des Laboratoires DGCCRF et DGDDI, Rennes. FR</li> </ul>  |
|  | <ul style="list-style-type: none"> <li>- The State Laboratory, Kildare. IE</li> </ul>   |
|  | <ul style="list-style-type: none"> <li>- Εργαστήριο Ελέγχου Κυκλοφορίας Ζωοτροφών Θεσσαλονίκης. GR</li> </ul>   |
|  | <ul style="list-style-type: none"> <li>- Istituto Superiore di Sanità. Dipartimento di Sanità Pubblica Veterinaria e Sicurezza Alimentare, Roma. IT</li> <li>- Centro di referenza nazionale per la sorveglianza ed il controllo degli alimenti per gli animali (CReAA), Torino. IT</li> </ul>  |
|  | <ul style="list-style-type: none"> <li>- Feedingstuffs Analytical Laboratory, Department of Agriculture, Nicosia. CY</li> </ul>   |

| Country   | National Reference Laboratory  |
|---|--|
|    | - Pārtikas drošības, dzīvnieku veselības un vides zinātniskais institūts BIOR, Rīga. LV  |
|    | - Nacionalinis maisto ir veterinarijos rizikos vertinimo institutas, Vilnius. LT   |
|    | - Laboratoire de Contrôle et d'essais – ASTA, Ettelbruck. LU   |
|    | - Nemzeti Élelmiszerlánc-biztonsági Hivatal, Élelmiszer- és Takarmánybiztonsági Igazgatóság, Takarmányvizsgáló Nemzeti Referencia Laboratórium, Budapest. HU                                     |
|    | - RIKILT Wageningen UR, Wageningen. NL   |
|    | - Österreichische Agentur für Gesundheit und Ernährungssicherheit (AGES), Wien. AT   |
|    | - Instytut Zootechniki – Państwowy Instytut Badawczy, Krajowe Laboratorium Pasz, Lublin. PL<br>- Państwowy Instytut Weterynaryjny, Pulawy. PL  |
|  | - Instituto Nacional de Investigação Agrária e Veterinária, I.P. (INIAV,IP), Lisboa. PT  |
|  | - Univerza v Ljubljani. Veterinarska fakulteta. Nacionalni veterinarski inštitut. Enota za patologijo prehrane in higieno okolja, Ljubljana. SI<br>- Kmetijski inštitut Slovenije, Ljubljana. SI |
|  | - Skúšobné laboratórium analýzy krmív, Ústredný kontrolný a skúšobný ústav poľnohospodársky, Bratislava. SK  |
|  | - Elintarviketurvallisuusvirasto/Livsmedelssäkerhetsverket (Evira), Helsinki/Helsingfors. FI   |
|  | - Avdelningen för kemi, miljö och fodersäkerhet, Statens Veterinärmedicinska Anstalt (SVA), Uppsala. SE  |
|  | - LGC Ltd, Teddington. UK  |
|  | - The National Institute of Nutrition and Seafood Research (NIFES), Bergen. NO   |
| <b>European Union Reference Laboratory</b>  |  |
|  | - Joint Research Centre of the European Commission. Institute for Reference Materials and Measurements. Geel, Belgium  |

## Annex II: List of EURL FAD reports issued in 2016

(listed in anti-chronological order)

| FAD No   | Product Name   | Active Substance(s)   | Published on | NRL      |
|--|--|---|--------------|----------|
| 2010-0201  | Citranaxanthin (Lucantin CX forte)   | Citranaxanthin  | 14/12/2016   |          |
| amendment<br>2010-0069<br>2010-0088<br>2010-0235 | Manganese - E5   | Manganese chelate of amino acids hydrate; Manganese chelate of glycine hydrate; Manganous oxide; Manganous carbonate; Manganous chloride tetrahydrate; Manganous sulfate monohydrate  | 05/12/2016   |          |
| 2016-0031  | L-valine produced by <i>Corynebacterium glutamicum</i> CGMCC 11675                   | L-Valine  | 16/11/2016   |          |
| 2016-0030  | Preparation of hydroxy analogue of Methionine (HMTBa) and calcium salt of HMTBa      | Hydroxy analogue of Methionine (HMTBa)  | 15/11/2016   |          |
| 2014-0028  | Fra Octazyme C Dry   | Endo-1,4-beta-xylanase (3.2.1.8)<br>Endo-1,3(4)-beta-glucanase (3.2.1.6)<br>Endo-1,4-beta-glucanase (3.2.1.4)<br>Manan-endo-1,4-beta-mannosidase (3.2.1.78)<br>Pectinase<br>alpha-galactosidase (3.2.1.22)<br>Protease (3.4.21.62)<br>alpha-amylase (3.2.1.1) | 10/11/2016   |          |
| Corigendum<br>2010-0285                          | Belfeed B MP & Belfeed B ML  | Endo 1,4-beta-xylanase (E.C. 3.2.1.8)   | 03/11/2016   |          |
| 2016-0037  | L-arginine produced by fermentation with <i>Corynebacterium glutamicum</i> KCCM80099 | L-arginine  | 31/10/2016   |          |
| 2016-0016  | <i>Lactobacillus casei</i> DSM 28872   | <i>Lactobacillus casei</i> DSM 28872  | 27/10/2016   |          |
| 2016-0019  | Optiphos®  | 6-phytase   | 17/10/2016   |          |
| 2015-0037  | Aviax® 5%  | Semduramicin sodium   | 14/10/2016   |          |
| 2016-0015  | <i>Pediococcus parvulus</i> DSM 28875  | <i>Pediococcus parvulus</i> DSM 28875   | 28/09/2016   | IT-CReAA |
| 2016-0017  | Coxam®   | Amprolium hydrochloride   | 17/08/2016   |          |
| 2016-0010  | Beltherm®  | Endo 1,4-beta-xylanase  | 16/08/2016   |          |
| 2016-0002  | Carvacrol  | Carvacrol   | 02/08/2016   |          |
| 2015-0027  | Actisaf® Sc 47   | <i>Saccharomyces cerevisiae</i> NCYC Sc 47/CNCM I-4407  | 11/07/2016   | IT-CReAA |
| 2016-0003  | L-threonine  | L-threonine   | 08/07/2016   |          |
| 2010-0264  | Actisaf® Sc 47   | <i>Saccharomyces cerevisiae</i> NCYC Sc 47  | 08/07/2016   | BE-CRA-W |

| FAD No   | Product Name   | Active Substance(s)  | Published on | NRL      |
|--|--|--|--------------|----------|
| 2014-0038  | Procion Forte®   | Bacillus subtilis (KCCM 10941P), Bacillus coagulans (KCCM 11093P)                                | 28/06/2016   | DE-SMUL  |
| 2010-0342  | Tartrazine   | Tartrazine   | 24/06/2016   |          |
| 2014-0024  | Cumin Cyminum L. (Cumine Tincture)                       | -  | 24/06/2016   |          |
| 2015-0039  | Coxar®   | Nicarbazin   | 20/06/2016   |          |
| 2016-0004  | Origanum vulgare L., ssp. hirtum var. Vulkan (DOS 00001) | Oregano essential oil  | 14/06/2016   |          |
| 2015-0048  | Axtra® PHY 20000 TPT2                                    | 6-phytase (EC 3.1.3.26)  | 25/05/2016   |          |
| 2016-0005  | Phyllite   | -  | 25/05/2016   |          |
| 2010-0256  | Sodium Molybdate   | Sodium Molybdate   | 28/04/2016   |          |
| 2015-0040  | Natuphos® E  | 6-phytase  | 28/04/2016   | AT-AGES  |
| 2015-0034  | Lactobacillus plantarum DSM 29024                        | Lactobacillus plantarum DSM 29024  | 21/04/2016   | IT-CReAA |
| 2015-0035  | Lactobacillus plantarum DSM 29025                        | Lactobacillus plantarum DSM 29025  | 21/04/2016   | FR-SCL   |
| 2015-0033  | Lactobacillus rhamnosus DSM 29226                        | Lactobacillus rhamnosus DSM 29226  | 19/04/2016   | BE-CRA-W |
| 2015-0028  | Lactobacillus diolivorans DSM 32074                      | Lactobacillus diolivorans DSM 32074  | 06/04/2016   | BE-CRA-W |
| 2015-0025  | Zinc Chelate of Methionine                               | Zinc Chelate of Methionine   | 04/03/2016   |          |
| 2015-0026  | Preparation of 3-phytase FLF1000                         | 3-phytase (EC 3.1.3.8)   | 04/03/2016   |          |
| 2010-0077  | Dry Grape Extract  |  | 03/03/2016   |          |
| 2015-0023  | Coxipol®   | Clopidol   | 20/01/2016   |          |
| 2015-0001  | Monteban® G100   | Narasin (E765)   | 19/01/2016   |          |
| 2010-0227  | Feedlyve® AGL  | Endo 1,3(4)-β-glucanase  | 19/01/2016   |          |
| amendment<br>2010-0059<br>2010-0063<br>2010-0072<br>2010-0142<br>2010-0228 | Zinc SANCO Group   | Zinc Acetate; Zinc Chloride; Zinc Oxide; Zinc Sulphates; Zinc chelates of amino acids or glycine | 08/01/2016   |          |

Reports available from the EURL website: <https://ec.europa.eu/jrc/en/eurl/feed-additives/evaluation-reports>