

JRC TECHNICAL REPORT



Activity Report 2014

*European Union Reference
Laboratory
for Feed Additives (EURL-FA)
Authorisation*

C. von Holst, S. Bellorini, M. De Smet,
R. Fernandez-Orozco, M. J. Gonzalez de la
Huebra, J. Keltti, E. Kovacs, J. Omar,
P. Robouch and Z. Ezerskis (Editor)

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Institute for Reference Materials and Measurements

Contact information

Christoph von Holst

Address: Joint Research Centre, Institute for Reference Materials and Measurements, Retieseweg 111, 2440 Geel, Belgium

E-mail: Christoph.von-Holst@ec.europa.eu

Tel.: +32 1457 1221

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Abstract

The activities of the EURL Feed Additives – Authorisation are presented for 2014. The achievements: the management of 41 declaration forms, 224 reference samples of the feed additives, publication of 44 evaluations reports related to authorisation of feed additives. The workshop of EURL-NRLs network and the event of 10th year anniversary of EURL-FA organised.

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Executive summary

In this report the team of the European Union Reference Laboratory for feed additives (EURL-FA) authorisation presents the main achievements for 2014. The tasks of the EURL-FA regarding the authorisation of feed additives are specified in Regulation (EC) No 378/2005.

This report compiles the main achievements for authorisation activities, which also reflect the main tasks of the EURL-FA:

- The sample registration and maintenance of the sample bank of reference feed additives;
- The scientific evaluation of analytical methods submitted by the applicants and sending the evaluation reports to the European Food Safety Authority (EFSA) and DG Health and Food Safety (DG SANTE);
- The organisation of 14th annual EURL workshop with National Reference Laboratories (NRLs) discussing the current topics related to the authorisation of feed additives; and
- The organisation of 10th anniversary event of EURL-FA by involving NRLs, EFSA, DG SANTE and representatives of feed industry; discussing the evolution, achievements and prospects related to the policy of feed additives authorisation in EU.

Declaration forms and sample registration

The first step that industry has to take when submitting an application for authorisation of a feed additive is to contact the EURL-FA via a declaration form. The details given by the industry are mainly used to establish whether a fee has to be paid or not and in the first case the specific amount. A total of 41 declaration forms were processed in 2014. A total of 224 reference samples were received in 2014, including 212 for replacement and 12 new samples. No problems of handling, registration or storing of the samples occurred. Furthermore, the shelf life of 52 samples was extended and therefore modified.

Evaluation of Dossiers

In 2014 the EURL-FA Authorisation, together with the National Reference Laboratories (NRLs), evaluated the analytical methods related to 51 applications, resulting in 44 reports (among them - one addendum for the report issued on 2010). Table 1 presents the number of applications evaluated and the corresponding evaluation reports released in the past 6 years. Figure 1 shows the number of the reports produced by the EURL-FA Authorisation since 2005. The number of reports issued in 2014 has increased more than 37% with respect to 2013.

Table 1. Number of applications evaluated and evaluation reports issued since 2009

	2009	2010	2011	2012	2013	2014
Applications	24	70	124	92	36	51
Reports	24	68	87	59	32	44

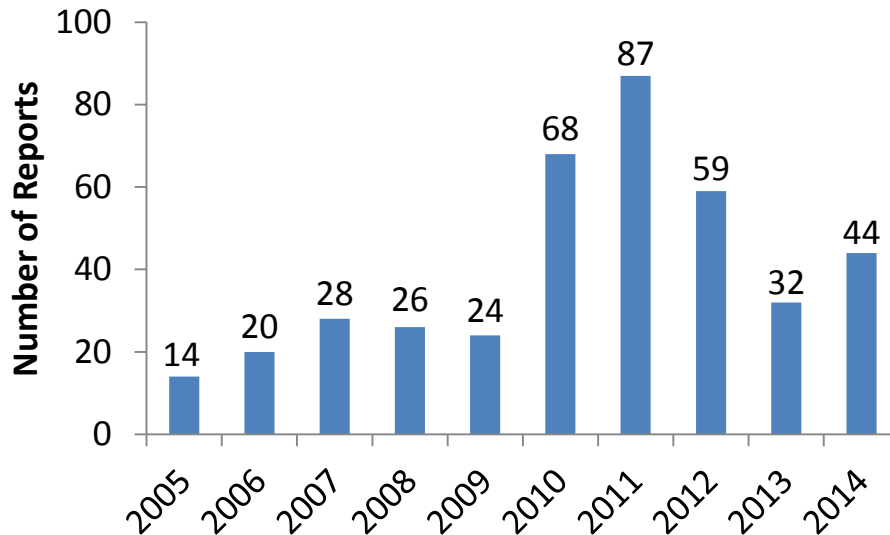


Figure 1. Number of reports issued by the EURL-FA Authorisation since 2005

In 2014, only one application (FAD-2013-0031) for Bactocell PA 10 ME was outsourced and the report drafted by the Belgian NRL (BE-CRA-W). The EURL managed the evaluation of the submitted applications respecting the deadlines established by European legislation. The complete list of issued reports in 2014 is provided in Annex I. All reports are available from the EURL webpage: <https://ec.europa.eu/jrc/en/eurl/feed-additives/evaluation-reports>

A detailed overview is presented in Table 2 showing the various categories and functional groups reviewed. This includes 32 technological, 11 nutritional, 9 zootechnical, 9 coccidiostats & histomonostats and 3 sensory dossiers.

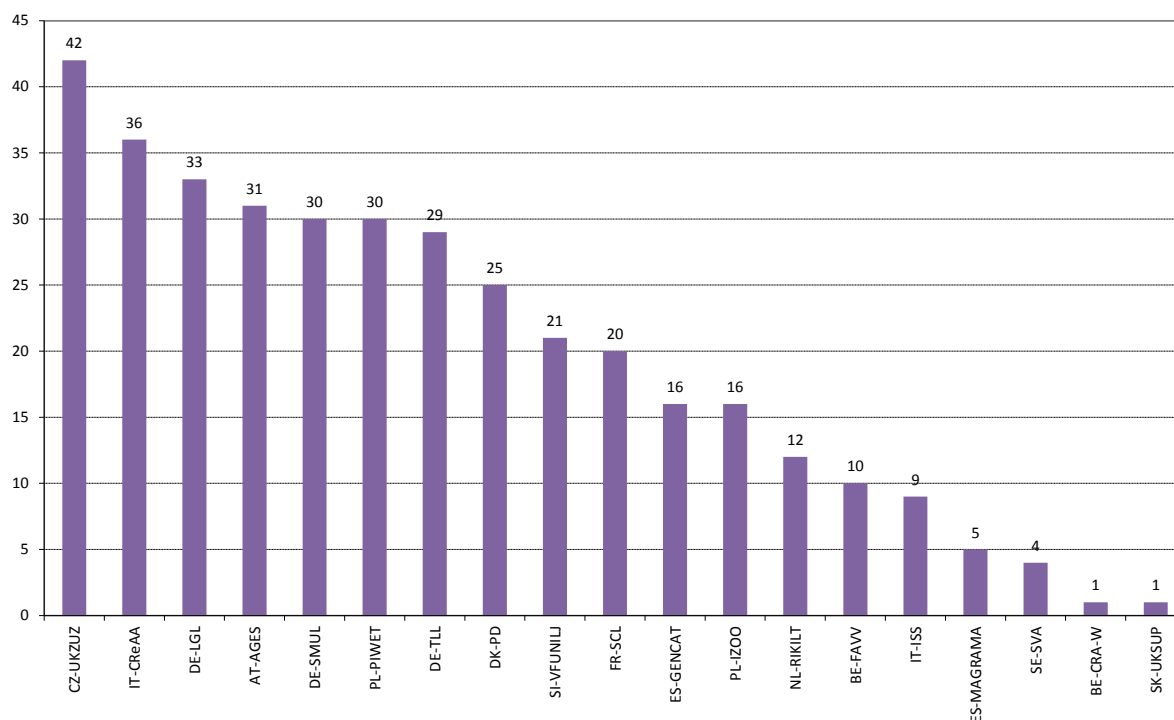
As foreseen by Commission Regulation (EC) No 378/2005, draft reports underwent a review cycle where each NRL was invited to comment on the initial report. The peer review turned out to be a quite important step when drafting the EURL report. This process allowed the experts of the NRL network to contribute with their specific experience to the reviewing of the reports and furthermore, providing thus an added value to the evaluation reports. Figure 2 shows the NRLs' activity review process in 2014. The following NRLs commented to 30 or more initial reports: CZ-UKZUZ, IT-CReAA, DE-LGL, AT-AGES, DE-SMUL and PL-PIWET. Their comments are highly appreciated by the EURL-FA authorisation team and consequently the NRL's that contributed are systematically acknowledged in the final reports sent by the EURL-FA Authorisation to EFSA and DG SANTE.

Table 2. Categories / functional groups of feed additives evaluated in 2014

Category		Functional Group		2014
1	technological	a	preservatives	
		b	antioxidants	1
		c	emulsifiers	7
		d	stabilisers	7
		e	thickeners	7
		f	gelling agents	6
		g	binders	
		h	substances for control of radionuclide contamination	
		i	anticaking agents	2
		j	acidity regulators	1
		k	silage additives	
		l	denaturants	
		m	mycotoxin binders	1
2	sensory	a	colourants	1
		b	flavouring compounds	2
3	nutritional	a	vitamins, pro-vitamins	3
		b	compounds of trace elements	4
		c	amino acids	4
		d	urea and its derivatives	
4	zootechnical	a	digestability enhancers	3
		b	gut flora stabilisers: micro-organisms	1
		c	substances which favourably affect the environment	1
		d	other zootechnical additives	4
5	coccidiostats & histomonostats			9

Total 64

Figure 2. Number of dossier evaluations, where the NRLs submitted comments during the review process in 2014



CZ-UKZUZ – Ústřední kontrolní a zkušební ústav zemědělský (ÚKZÚZ), Národní referenční laboratoř, Brno (Czech Republic)

IT-CReAA – Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta (IZSTO), *Centro di Referenza Nazionale per la Sorveglianza e il Controllo degli Alimenti per gli Animali (C.Re.A.A.)*, Torino (Italy)

DE-LGL – Sachgebiet Futtermittel des Bayerischen Landesamtes für Gesundheit und Lebensmittelsicherheit (LGL), Oberschleißheim (Germany)

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

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

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

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

DK-PD – Fødevarestyrelsen, Laboratorierne Ringsted og Aarhus (Denmark)

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

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

ES-GENCAT – Laboratori Agroalimentari, Qualitat i Indústries Agroalimentàries; Direcció General d'Alimentació; Departament d'Agricultura, Ramaderia, Pesca, Alimentació i Medi Natural, Generalitat de Catalunya, Cabrils (Spain)

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

NL-RIKILT – Instituut voor Voedselveiligheid, Wageningen (The Netherlands)

BE-FAVV – Federaal Laboratorium voor de Veiligheid van de Voedselketen (FLVVT), Federal Agentschap voor de veiligheid van de voedselketen (FAVV), Tervuren (Belgium)

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

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

SE-SVA – Statens Veterinärmedicinska Anstalt (SVA), Uppsala (Sweden)

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

SK-UKSUP – Skúšobné laboratórium – Oddelenie analýzy krmív, Ústredný kontrolný a skúšobný ústav poľnohospodársky (ÚKSÚP), Bratislava (Slovakia)

The executive summaries of the EURL-FA Authorisation reports are included in EFSA opinions. Moreover, the method descriptions given in each EURL-FA Authorisation report are reflected in the respective Commission Implementing Regulations (CIR) authorising the corresponding feed additives. Table 3 summarises the contribution of the EURL-FA Authorisation reports on EFSA opinions and Commission Implementing Regulations. Moreover, the Tables 4 and 5 show the specific EFSA opinions and Commission Implementing Regulations that made reference to the EURL evaluation in 2014.

Table 3. Contribution of EURL-FA Authorisation reports to opinions of EFSA and Commission Implementing Regulations (CIR) authorising the feed additives

	Number EFSA opinions	Number CIRs
2014	34	26
2013	50	39
2012	74	36
2011	54	46
2010	22	20

Table 4. EURL executive summaries included in EFSA opinions

	EFSA Journal reference in 2014	Feed additives/Active substances	Dossier number
1	2014;12(11):3895[20 pp.]	Concentrated liquid L-lysine (base), concentrated liquid L-lysine monohydrochloride and L-lysine monohydrochloride technically pure produced using <i>Escherichia coli</i> (FERM BP-11355)	2013-0027
2	2014;12(11):3896[17 pp.]	CRINA® Poultry Plus (benzoic acid, thymol, eugenol and piperine)	2013-0052
3	2014;12(11):3901[15 pp.]	Cassia gum	2010-0186
4	2014;12(11):3900[15 pp.]	Cassia gum (Galactogum)	2010-0160
5	2014;12(11):3899 [16 pp.]	Cassia gum	2009-0056
6	2014;12(11):3902 [16 pp.]	Cassia gum (Diagum C5)	2010-0310
7	2014;12(11):3905 [11 pp.]	Avi-Deccox® 60G (decoquinat)	2014-0014
8	2014;12(11):3904 [15 pp.]	Friedland clay (montmorillonite–illite mixed layer clay)	2010-0244
9	2014;12(10):3828[18 pp.]	Tannic acid	2010-0123
10	2014;12(10):3827[16 pp.]	Formic acid	2009-0027
11	2014;12(10):3826[13 pp.]	L-tryptophan produced by <i>Escherichia coli</i> (FERM BP-11354)	2013-0025
12	2014;12(10):3825[14 pp.]	L-threonine produced by <i>Escherichia coli</i> (FERM BP-11383)	2013-0028
13	2014;12(9):3830[12 pp.]	Mycocell (<i>Saccharomyces cerevisiae</i>)	2012-0038
14	2014;12(7):3789 [11 pp.]	<i>Lactobacillus acidophilus</i> D2/CSL (<i>Lactobacillus acidophilus</i>)	2010-0394
15	2014;12(7):3796[20 pp.]	Copper chelate of L-lysinate-HCl	2013-0003
16	2014;12(7):3792 [18 pp.]	Sorbic acid and potassium sorbate	2010-0193
17	2014;12(7):3795[14 pp.]	L-valine (ValAMINO®) produced by <i>Corynebacterium glutamicum</i> (DSM 25202)	2011-0053
18	2014;12(7):3793 [20 pp.]	Rovabio® Spiky (endo-1,4-beta-xylanase and endo-1,3(4)-beta-glucanase)	2013-0030
19	2014;12(6):3728[23 pp.]	Coxiril® (Diclazuril)	2012-0017
20	2014;12(6):3730[13 pp.]	Coxiril® (Diclazuril)	2013-0014
21	2014;12(6):3724[35 pp.]	Synthetic astaxanthin	2009-0054
22	2014;12(5):3667 [19 pp.]	Fumonisin esterase (FUMzyme®)	2013-0002
23	2014;12(5):3670[19 pp.]	Amino acids (chemical group 34)	2010-0107
24	2014;12(5):3671[19 pp.]	Inositol	2010-0196
25	2014;12(5):3672 [12 pp.]	Fecinor® and Fecinor® plus (<i>Enterococcus faecium</i>)	2010-0363
26	2014;12(3):3608 [18 pp.]	Furanones and tetrahydrofurfuryl derivatives: 5-ethyl-3-hydroxy-4-methylfuran-2(SH)-one and 3-hydroxy-4,5-dimethylfuran-2(SH)-one (chemical group 13)	2010-0408
27	2014;12(3):3606[14 pp.]	Disodium 5'-ribonucleotides, disodium 5'-guanylate, disodium 5'-inosinate	2010-0217
28	2014;12(2):3567[20 pp.]	DL-selenomethionine	2012-0042
29	2014;12(2):3562 [25 pp.]	Formaldehyde	2010-0399
30	2014;12(2):3561[24 pp.]	Formaldehyde	2010-0222
31	2014;12(2):3563[18 pp.]	Malic acid and a mixture of sodium and calcium malate	2010-0143
32	2014;12(1):3529[11 pp.]	<i>Lactobacillus plantarum</i> (KKP/593/p and KKP/788/p) and <i>Lactobacillus buchneri</i> (KKP/907/p)	2010-0397
33	2014;12(1):3532 [29 pp.]	Vitamin K3 (menadione sodium bisulphite and menadione nicotinamide bisulphite)	2010-0099
34	2014;12(1):3527[24 pp.]	Canthaxanthin	2008-0048

EFSA reports 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 5. Commission Implementing Regulations supported by the EURL-FA recommendations

	Commission Implementing Regulation (EU) No	Feed additives/active substance	Dossier number
in 2014			
1	1249/2014 of 21 November 2014	Inositol	2010-0196
2	1236/2014 of 18 November 2014	L-valine produced by <i>Corynebacterium glutamicum</i> (DSM 25202)	2011-0053
3	1230/2014 of 17 November 2014	Copper bilysinate	2013-0003
4	1138/2014 of 27 October 2014	Preparation of endo-1,4-beta-xylanase and endo-1,3(4)-beta-glucanase produced by <i>Talaromyces versatilis</i> sp. nov. IMI CC 378536	2010-0189
5	1115/2014 of 21 October 2014	Preparation of fumonisin esterase produced by <i>Komagataella pastoris</i> (DSM 26643)	2013-0002
6	1109/2014 of 20 October 2014	Preparation of <i>Saccharomyces cerevisiae</i> CBS 493.94	2007-0048
7	1108/2014 of 20 October 2014	Preparation of <i>Clostridium butyricum</i> (FERM BP-2789)	2012-0012
8	1083/2014 of 15 October 2014	Preparation of <i>Enterococcus faecium</i> DSM 7134 (Bonvital)	2013-0023
9	1076/2014 of 13 October 2014	Preparation containing a smoke flavouring extract-2b0001	2010-0400
10	852/2014 of 5 August 2014	L-methionine	2012-0016
11	849/2014 of 4 August 2014	Preparations of <i>Pediococcus acidilactici</i> NCIMB 30005, <i>Lactobacillus paracasei</i> NCIMB 30151 and <i>Lactobacillus plantarum</i> DSMZ 16627	2010-0275 2010-0273 2010-0274
12	848/2014 of 4 August 2014	L-valine produced by <i>Corynebacterium glutamicum</i>	2012-0028
13	847/2014 of 4 August 2014	DL-selenomethionine	2012-0042
14	684/2014 of 20 June 2014	Canthaxanthin	2010-0407
15	669/2014 of 18 June 2014	Calcium D-pantothenate and D-panthenol	2010-0073
16	399/2014 of 22 April 2014	Preparations of <i>Lactobacillus brevis</i> DSM 23231, <i>Lactobacillus brevis</i> DSMZ 16680, <i>Lactobacillus plantarum</i> CECT 4528 and <i>Lactobacillus fermentum</i> NCIMB 30169	2010-0108 2010-0277 2010-0393
17	305/2014 of 25 March 2014	Propionic acid, sodium propionate and ammonium propionate	2010-0356
18	304/2014 of 25 March 2014	Preparations of <i>Enterococcus faecium</i> NCIMB 10415, <i>Enterococcus faecium</i> DSM 22502 and <i>Pediococcus acidilactici</i> CNCM I-3237	2010-0135 2010-0127
19	302/2014 of 25 March 2014	Preparation of endo-1,3(4)-beta-glucanase produced by <i>Trichoderma reesei</i> (CBS 126896)	2011-0033
20	292/2014 of 21 March 2014	Preparation of 6-phytase produced by <i>Trichoderma reesei</i> (CBS 126897)	2012-0015 2012-0033
21	291/2014 of 21 March 2014	Withdrawal time and maximum residues limits of the feed additive decoquinat	2013-0009
22	290/2014 of 21 March 2014	preparation of endo-1,4-beta-xylanase and endo-1,3(4)-beta- glucanase produced by <i>Talaromyces versatilis</i> sp. nov. IMI CC 378536	2010-0189
23	131/2014 of 11 February 2014	cobalt(II) acetate tetrahydrate, cobalt(II) carbonate, cobalt(II) carbonate hydroxide (2:3) monohydrate, cobalt(II) sulphate heptahydrate and coated granulated cobalt(II) carbonate hydroxide (2:3) monohydrate	2010-0337 2010-0371 2010-0402
24	121/2014 of 7 February 2014	L-selenomethionine	2011-0028
25	101/2014 of 4 February 2014	L-tyrosine	2010-0260
26	84/2014 of 30 January 2014	preparations of <i>Pediococcus pentosaceus</i> DSM 14021, <i>Pediococcus pentosaceus</i> DSM 23688 or <i>Pediococcus pentosaceus</i> DSM 23689	2010-0389

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

Executive summary of the Workshop 2014 of the EURL-FA Authorisation

The 14th workshop of the EURL Feed Additives Authorisation (EURL-FA) was organised together with the 3rd workshop of EURL-FA Control and held at IRMM on November 13, 2014. For the authorisation part, thirty-seven participants, representing 22 National Reference Laboratories (NRLs), DG SANTE, EFSA and the EURL-FA, attended the event.

Christoph von Holst (operating manager of EURL-FA) welcomed the participants and briefly presented the programme of the workshop. The morning session involved both networks (Authorisation and Control).

The workshop started with presentations on EURL-FA Authorisation and Control activities of 2014 and on work programme of the EURL on 2015 given by P. Robouch (EURL-FA Authorisation) and U. Vincent (EURL-FA Control).

For the authorisation part P. Robouch (PR) outlined the tasks of EURL-FA summarising the improvements performed during the year i.e. increase the usage of ARES (paperless), launch of an updated and simplified "Guide for Applicants" with references to the stakeholders websites whenever appropriate and better communication within network laboratories. Afterwards, main EURL activities and deliverables (declaration forms, samples, evaluation reports) in 2014 were reported. In addition, PR presented the EURL-FA ongoing project, which will – once finalised - allow free public availability of the recommended methods via the webpage of EURL-FA. PR also summarised the current status of other activities carried out in the frame of analytical methodology for determination of Diclazuril, optiphos and microorganisms. Concerning WP for 2015, around ca. 50 dossiers are expected. In addition, next year some amendments for colorants, for use in water and for CDGs may be asked by Commission.

F. Verstraete (DG SANTE) continued by presenting EU policy on risk management of undesirable substances in feed, pointing out the important contribution of effective EURL/NRL network, achievements and challenges in the field.

Z. Ezerskis (EURL-FA) presented the pitfalls related to application of Community method (EC 152/2009) for determination of Diclazuril in feed. The presentation was continued by U. Vincent who presented the results of Proficiency Testing for determination of Diclazuril in feed at feed additive levels; later on the discussions followed during which it was concluded that EURL-FA will organise collaborative trial in order to modify the current Community method.

On the afternoon, two parallel sessions, focusing on EURL-FA Authorisation and Control topics, were held separately. The session of the Authorisation part was continued by the following presentations:

- A decade of successful collaboration between Czech NRL and EURL-FA (Jaroslava Petrova, CZ-NRL);
- Application of fourier-transformed infrared spectroscopy (FTIR) imaging analysis technique supported by multivariate analysis for characterisation of feed additive preparations containing coccidiostats as active substances (Jone Omar, EURL-FA);
- EFSA status report 2014 on feed additives (Matteo Innocenti, EFSA);
- Feed additives and preparations: definition of preparations, difference with premixtures, new legislation on preparation (Almudena Rodriguez, DG SANTE);
- Phytase project – the way forward towards revision of ISO 30024 method (Maria Jose Gonzalez de la Huebra, EURL-FA).

Executive summary of 10th anniversary of EURL-FA

The 10th anniversary of EURL Feed Additives was held at IRMM on November 14, 2014. The event was dedicated to celebrate 10 years of scientific and technical support for the EU legislation on feed additives. The colleagues from DG SANTE, EFSA, IRMM, the National Reference Laboratories (NRLs), EURL-FA and the representatives of feed industry attended the event.

A review of the activities of the last 10 years was presented and feedback from all main stakeholders was given through key invited lectures. The role of EFSA in the authorisation process and its collaboration with the EURL-FA was presented by Mr. H. Deluyker (Scientific Adviser, EFSA), while Ms. M. Ponghellini (acting Head of Unit, Animal Nutrition Unit, DG SANTE) guided the audience from the past to the future from the policy point of view. In the same line, Mr. C. von Holst (Operating Manager, EURL-FA) explained the double role of the EURL-FA, i.e. control and authorisation and gave an overview of the activities carried out by both branches since their setup. The network of NRLs was represented by Mr. C. Genouel (Scientific Director, French NRL) who shared with the audience his experience as member of the network and his wishes for the future. Finally, the industry represented by two different associations, also showed its view of the feed additives authorisation process during this decade. The EU Association of Speciality Feed Ingredients and their mixtures (FEFANA), represented by Mr. D. Jans (Secretary General, FEFANA), went through some case-studies showing the collaboration with the EURL-FA while Mr. A. Boixin (Deputy Secretary General, European Feed Manufacturers' Federation - FEFAC), focused his presentation on the importance of the feed additives to tackle some of the current challenges linked to the modern husbandry.

The event also gave the opportunity to exchange views and expectations on the activities of the EURL-FA in the future, from a policy support perspective.

All the members of the EURL-FA team thank their colleagues for their enthusiastic contribution and continuous support within this decade and wish to count with them for many more years.

Acknowledgements

We sincerely thank our colleagues within DG JRC IRMM for their strong support and interest in EURL-FA activities, both with regards to secretarial support, review of reports and development of tailor-made systems. We would like to acknowledge the efforts and excellent collaboration with the Mail services and the Resources Management Geel.

We are also grateful to all experts from NRLs for their contribution to the evaluation of the dossiers and the discussions in the workshop which was indispensable for the successful operation of the evaluation procedure and for sharing information and knowledge. The list of NRLs is provided hereafter.

The EURL-FA Authorisation Network List

(updated on 05/05/2015)

Country	National Reference Laboratory
	<ul style="list-style-type: none"> - Federaal Laboratorium voor de Veiligheid van de Voedselketen (FLVVT), Federal Agentschap voor de veiligheid van de voedselketen (FAVV), Tervuren. BE - Vlaamse Instelling voor Technologisch Onderzoek (VITO), Mol. BE - Centre wallon de Recherches agronomiques (CRA-W), Gembloux. BE
	<ul style="list-style-type: none"> - Ústřední kontrolní a zkušební ústav zemědělský (ÚKZÚZ), Národní referenční laboratoř, Brno. CZ
	<ul style="list-style-type: none"> - Fødevarestyrelsen, Laboratorierne Ringsted og Aarhus. DK
	<ul style="list-style-type: none"> - Sachgebiet Futtermittel des Bayrischen Landesamtes für Gesundheit und Lebensmittelsicherheit (LGL). Oberschleißheim. DE - Landwirtschaftliche Untersuchungs- und Forschungsanstalt (LUFA) Speyer. DE - Staatliche Betriebsgesellschaft für Umwelt und Landwirtschaft. Geschäftsbereich 6 - Labore Landwirtschaft. Nossen. DE - Thüringer Landesanstalt für Landwirtschaft (TLL). Abteilung Untersuchungswesen. Jena. DE
	<ul style="list-style-type: none"> - Põllumajandusuuringute Keskus (PMK). Jääkide ja saasteainete laboratoorium, Saku, Harjumaa. EE - Põllumajandusuuringute Keskus (PMK), Taimse materjali laboratoorium, Saku, Harjumaa. EE
	<ul style="list-style-type: none"> - Laboratorio Arbitral Agroalimentario (LAA), Ministerio de Agricultura, Alimentación y Medio Ambiente, Madrid. ES - Laboratori Agroalimentari, Qualitat i Indústries Agroalimentàries; Direcció General d'Alimentació; Departament d'Agricultura, Ramaderia, Pesca, Alimentació i Medi Natural, Generalitat de Catalunya, Cabriels. ES
	<ul style="list-style-type: none"> - Laboratoire de Rennes, SCL L35, Service Commun des Laboratoires, Rennes. FR
	<ul style="list-style-type: none"> - The State Laboratory, Kildare. IE
	<ul style="list-style-type: none"> - Istituto Superiore di Sanità (ISS), Dipartimento di Sanità Pubblica Veterinaria e Sicurezza Alimentare (SPVSA), Roma. IT - Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta (IZSTO), <i>Centro di Referenza Nazionale per la Sorveglianza e il Controllo degli Alimenti per gli Animali (C.Re.A.A.)</i>, Torino. IT.
	<ul style="list-style-type: none"> - Analytical Laboratories Section - Feeding Stuffs Quality Control Laboratory, Department of Agriculture, Ministry of Agriculture, Natural Resources and Environment, Nicosia. CY
	<ul style="list-style-type: none"> - Pārtikas drošības, dzīvnieku veselības un vides zinātniskais institūts (BIOR), Rīga. LV
	<ul style="list-style-type: none"> - Nacionalinis maisto ir veterinarijos rizikos vertinimo institutas (NMVRVI), Vilnius. LT

Country	National Reference Laboratory
	- Laboratoire de Contrôle et d'essais de l'Administration des Services Techniques de l'Agriculture (ASTA), Ministère de l'Agriculture, de la Viticulture et du Développement Rural, Ettelbruck. LU
	- Nemzeti Élelmiszerlánc-biztonsági Hivatal, Budapest. HU
	- RIKILT-Instituut voor Voedselveiligheid, Wageningen. NL
	- LabNett AS, Agricultural Chemistry Laboratory, Stjørdal. NO
	- Österreichische Agentur für Gesundheit und Ernährungssicherheit (AGES), Wien. AT
	- Instytut Zootechniki Państwowy Instytut Badawczy. Krajowe Laboratorium Pasz, Lublin. PL - Państwowy Instytut Weterynaryjny, Pulawy. PL
	- Instituto Nacional de Investigação Agrária e Veterinária (INIAV)/Laboratório Nacional de Investigação Veterinária (LNIV), Lisboa. PT
	- Univerza v Ljubljani. Veterinarska fakulteta. Nacionalni veterinarski inštitut. Enota za patologijo prehrane in higieno okolja, Ljubljana. SI - Kmetijski inštitut Slovenije, Ljubljana. SI
	- Skúšobné laboratórium - Oddelenie analýzy krmív, Ústredný kontrolný a skúšobný ústav poľnohospodársky (ÚKSÚP), Bratislava. SK
	- Elintarviketurvallisuusvirasto/Livsmedelssäkerhetsverket (Evira), Helsinki/Helsingfors. FI
	- Statens Veterinärmedicinska Anstalt (SVA), Uppsala. SE
	- The Laboratory of the Government Chemist (LGC), Teddington. UK
	European Commission, Joint Research Centre, Institute for Reference Materials and Measurements (IRMM). EU

Annex I: List of EURL FAD reports issued in 2014

(listed in anti-chronological order)

Full reports available on the EURL-FA website

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

FAD No	Product Name	Active Substance(s)	Published on	NRL
2014-0021	Zinc Chelate of L-Lysinate HCl	Zinc Chelate of L-Lysinate HCl	17/12/2014	
2010-0147	Benzoic acid E210	Benzoic acid	15/12/2014	
2010-0391	Guar gum E412	-	05/12/2014	
2010-0159	Acacia gum E414	-	05/12/2014	
2010-0392	Tragacanth gum E413	-	05/12/2014	
2010-0141	Ethoxyquin	Ethoxyquin	27/11/2014	
2014-0009	Aviax 5%	Semduramicin sodium	11/11/2014	
2012-0027	Monimax®	Monensin sodium; Nicarbazin	30/10/2014	
2009-0010	SelenoSource AF2000	Selemeized yeast produced by Saccharomyces cerevisiae NCYC R645	29/10/2014	
2013-0051	Robenz® 66G	Robenidine hydrochloride	24/10/2014	
2010-0250	Xanthan Gum	Xanthan Gum	22/09/2014	
2012-0035	Complexation products of sodium tartrates with iron (III) chloride	-	22/09/2014	
2010-0205 2010-0319	Carrageenan (refined and semi-refined)	Carrageenan	18/09/2014	
2013-0037	Elancoban® G200	Monensin sodium	12/09/2014	
2014-0015	L-valine produced by Escherichia coli K-12 (NITE BP-01755)	L-valine	11/09/2014	
2012-0041 2013-0029 2013-0053	Sacox®	Salinomycin sodium	08/09/2014	
2014-0014	Deccox® 60G	Decoquinatate	18/08/2014	
2010-0333	Sorbitan monolaurate	Sorbitan monolaurate	24/07/2014	
2010-0208	Agar	Agar (E 406)	10/07/2014	
2010-0285	Belfeed B MP & Belfeed B ML	Endo 1,4-β-xylanase (E.C. 3.2.1.8)	04/07/2014	
2010-0360	Locust Bean Gum	-	25/06/2014	
2013-0049	Axtra Phy 15000L	6-phytase (E.C. 3.1.3.26)	23/06/2014	

FAD No	Product Name	Active Substance(s)	Published on	NRL
2010-0383	Clinoptilolite of volcanic origin	Clinoptilolite	19/06/2014	
2013-0052	Crina Poultry plus	Benzoic Acid, Thymol, Eugenol, Piperine	17/06/2014	
2013-0018	Grape Seed Extract	-	27/05/2014	
2013-0045	L-lysine sulphate	L-lysine	19/05/2014	
2010-0040 2010-0052 2010-0140	Vitamin B1 Group	Thiamine mononitrate; Thiamine hydrochloride	13/05/2014	
2013-0032	Astaxanthin-rich Phaffia rhodozyma	Astaxanthin	13/05/2014	
2011-0051	Vitamin B2	Riboflavin Sodium Phosphate	08/05/2014	
2012-0034	DL-Methionyl-DL-Methionine	DL-Methionyl-DL-Methionine	07/05/2014	
2013-0041	Monteban G100	Narasin	05/05/2014	
2013-0031	Bactocell PA 10 ME	Pediococcus acidilactici CNCM MA 18/5M	16/04/2014	CRA-W
2013-0030	Rovabio®Spiky	Endo-1,4-β-Xylanase (EC 3.2.1.8) & endo-1,3(4)β-Glucanase (EC 3.2.1.6)	11/04/2014	
2013-0010	Xtract®Evolution-B	Carvacrol, cinnamaldehyde, capsicum oleoresin	04/04/2014	
2013-0027	L-lysine	L-lysine HCl (tech. pure, conc., conc./pure)	04/04/2014	
2013-0022	Kelforce	L-glutamic acid N,N-diacetic acid tetrasodium salt	11/03/2014	
2013-0042	Coxiril®	Diclazuril	26/02/2014	
2010-0406	Diarr-Stop S Plus	Sodium EDTA; tannin/tannic acid; thymol; carvacrol	24/02/2014	
2011-0047 2011-0048 2013-0016	Sodium Ferrocyanide (E 535) & Potassium ferrocyanide (E536)	Sodium Ferrocyanide & Potassium ferrocyanide	24/02/2014	
2013-0040	Avatec 150G	Lasalocid A sodium	14/02/2014	
2012-0031	Kaneka Q10	Coenzyme Q10	04/02/2014	
2012-0040	Manganese hydroxychloride	Manganese hydroxychloride	31/01/2014	
2013-0003	Copper Chelate of L-Lysinate-HCl	Copper Chelate of L-Lysinate-HCl	27/01/2014	
2010-0219	BDG 07	Botanically defined flavourings	20/01/2014	

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European Commission

JRC 96311 – Joint Research Centre – Institute for Reference Materials and Measurements

Title: Activity Report 2014 European Union Reference Laboratory for Feed Additives (EURL-FA) Authorisation

Author(s): Christoph von Holst, Stefano Bellorini, Machteld De Smet, Rebeca Fernandez-Orozco, Maria Jose Gonzalez de la Huebra, Joanna Keltti, Edit Kovacs, Jone Omar, Piotr Robouch and Zigmantas Ezerskis (Editor)

2015 – 18 pp. – 21.0 x 29.7 cm



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