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Activity Report 2013

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

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Abstract

The activities of the EURL Feed Additives – Authorisation and Control are presented for 2013. The achievements: the management of 261 reference samples of the feed additives; publication of 32 evaluations reports related to authorisation of feed additives; two workshops organised by EURL-FA Authorisation and Control; one proficiency test (PT) organised by EURL-FA Control.

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Executive summary

In this report the team of the European Union Reference Laboratory for feed additives (EURL-FA) presents the main achievements for 2013. The EURL-FA is actually responsible for two activities, namely (1) to contribute to the *authorisation* of feed additives and (2) to facilitate the enforcement of legal limits of feed additives by Member States' official *control* laboratories.

The tasks of the EURL-FA regarding the authorisation of feed additives are specified in Regulation (EC) No 378/2005, whereas the corresponding tasks in respect to the control activities are detailed in Regulation (EC) No 882/2004.

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

For the EURL-FA *Authorisation*:

- 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 report to the European Food Safety Authority (EFSA) and DG Health and Consumers (DG SANCO); and
- The organisation of a EURL workshop with National Reference Laboratories (NRLs) discussing the current topics related to the authorisation of feed additives.

For the EURL-FA *Control*:

- The organisation of a proficiency testing (PT) exercise on the determination of coccidiostats at cross-contamination in feedingstuffs;
- The organisation of the EURL workshop with NRLs discussing specific aspects regarding the official control of feed additives.

Part 1: Activities of the EURL-FA Authorisation

Sample Registration

A total of 261 reference samples were received in 2013, including 226 for replacement and 35 new samples. No problems of handling, registration or storing of the samples occurred. Furthermore, the shelf life of 21 samples was extended and therefore modified.

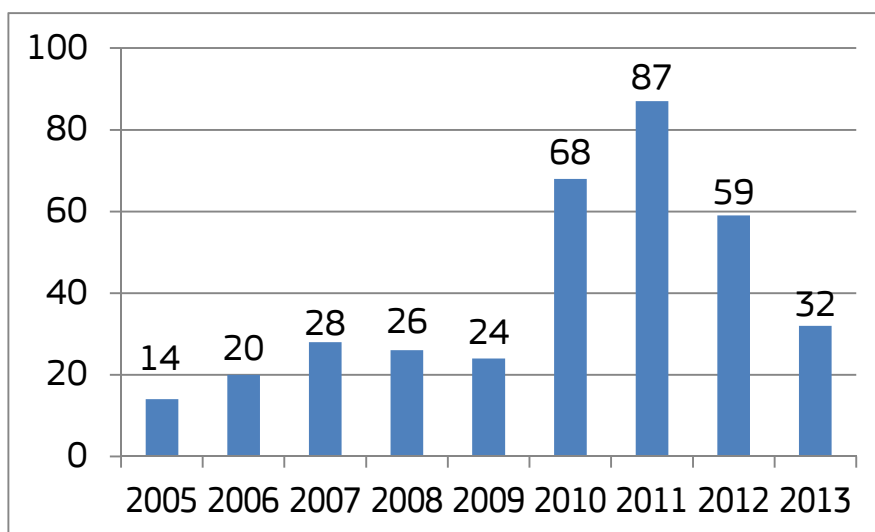
Evaluation of Dossiers

In 2013 the EURL-FA Authorisation, together with the National Reference Laboratories (NRLs), evaluated the analytical methods related to 36 applications, resulting in 32 reports (among them - two addendums for the reports issued on 2010 and 2011). 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 increase of reports produced in 2010 onwards is linked to the re-authorisation exercise of feed additives authorised under previous legislation. The decline of the issued reports in 2012 and 2013 is related to a lower number of applications forwarded from DG SANCO to EFSA.

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

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

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



In 2013, three pooled applications (FAD-2010-0173; FAD-2010-0199; FAD-2010-0326) for Vitamin B12/Cyanocobalamin were outsourced to, and the report drafted by the Slovenian NRL (SI-VFUNIV). The EURL managed the evaluation of the submitted applications respecting the deadlines established by European legislation. The complete list of issued reports in 2013 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 16 technological, 8 zootechnical, 10 nutritional, 3 coccidiostats & histomonostats and 2 sensory dossiers.

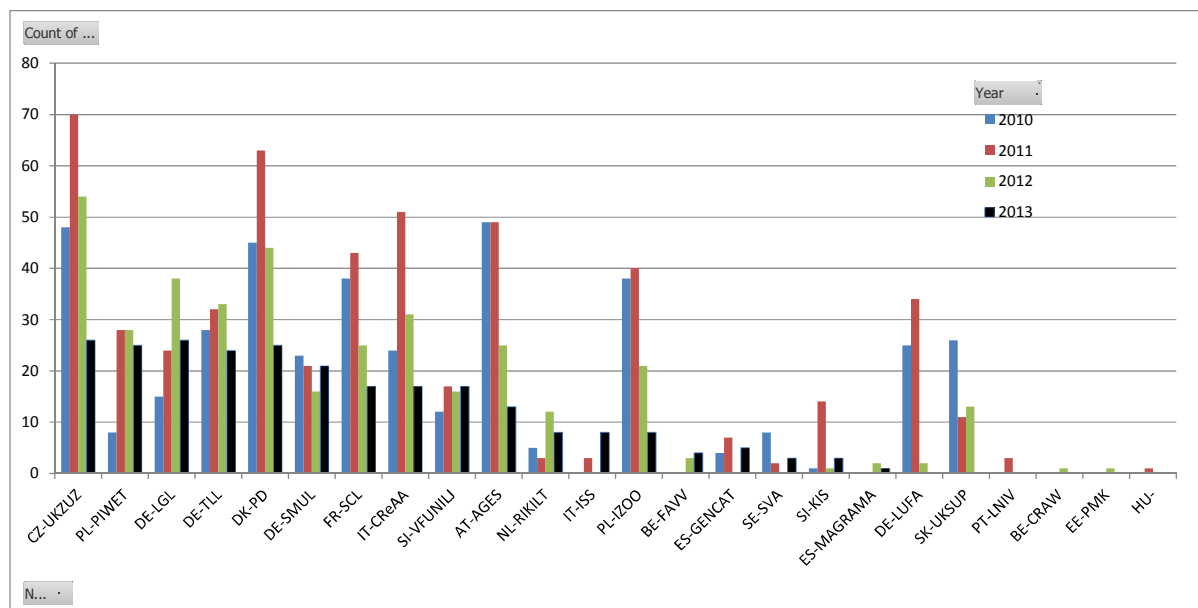
As foreseen by Commission Regulation (EC) No 378/2005, draft reports underwent a review cycle where each NRL was invited to comment on the initial report. The peer review turned out to be a quite important step when drafting the EURL report. This process allowed the experts of the NRL network to contribute 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 2013. The following NRLs commented to 20 or more initial reports: CZ-UKZUZ; DE-LGL; DE-TLL; DK-PD 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 SANCO.

Table 2. Categories / functional groups of feed additives evaluated in 2013

Category		Functional Group		2013
1	technological	a	preservatives	
		b	antioxidants	
		c	emulsifiers	3
		d	stabilisers	1
		e	thickeners	1
		f	gelling agents	1
		g	binders	3
		h	substances for control of radionuclide contamination	
		i	anticaking agents	2
		j	acidity regulators	1
		k	silage additives	
		l	denaturants	
		m	mycotoxin binders	4
2	sensory	a	colourants	
		b	flavouring compounds	2
3	nutritional	a	vitamins, pro-vitamins	3
		b	compounds of trace elements	1
		c	amino acids	6
		d	urea and its derivatives	
4	zootechnical	a	digestability enhancers	4
		b	gut flora stabilisers: micro-organisms	1
		c	substances which favourably affect the environment	1
		d	other zootechnical additives	2
5	coccidiostats & histomonostats			3
Total				39

Figure 2. Number of dossier evaluations, where the NRLs submitted comments during the review process, since 2010



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

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

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

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

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

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

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

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)

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

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

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

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

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

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

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)

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

SI-KIS – Kmetijski inštitut Slovenije, Ljubljana (Slovenia)

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

DE-LUFA – Landwirtschaftliche Untersuchungs- und Forschungsanstalt (LUFA) Speyer, Speyer (Germany)

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

PT-LNIV – Instituto Nacional de Investigação Agrária e Veterinária (INIAV), Laboratório Nacional de Investigação Veterinária (LNIV), Lisboa (Portugal)

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

EE-PMK – Põllumajandusuuringute Keskus (PMK). Jäähäide ja saasteainete laboratoorium, Saku, Harjumaa (Estonia)

HU – Nemzeti Élelmiszerlánc-biztonsági Hivatal, Budapest (Hungary)

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 Regulation that made reference to the EURL evaluation in 2013.

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

	EFSA opinions	CIR
2013	50	39
2012	74	36
2011	54	46
2010	22	20

Table 4. EURL executive summaries included in EFSA opinions

	EFSA Journal reference	Feed additives/Active substances	Dossier number
	in 2013		
1	2013;11(5):3210 [23 pp.]	Betaine in the form of betaine anhydrous and betaine hydrochloride	2010-0216
2	2013;11(10):3363 [22 pp.]	Enterococcus faecium (NCIMB 10415, DSM 22502, ATCC 53519 and ATCC 55593)	2010-0135
3	2013;11(10):3362 [13 pp.]	Saccharomyces cerevisiae (NBRC 0203), Lactobacillus plantarum (NBRC 3070) and Lactobacillus casei (NBRC 3425)	2010-0240
4	2013;11(10):3370 [12 pp.]	Deccox® (decoquinat)	2013-0009
5	2013;11(10):3430 [15 pp.]	Amylofeed® (endo-1,3(4)-beta-glucanase, endo-1,4-beta-xylanase and alpha-amylase)	2010-0353
6	2013;11(10):3433 [10 pp.]	Quantum® Blue (6-phytase)	2012-0033
7	2013;11(10):3437 [13 pp.]	L-cysteine hydrochloride monohydrate	2010-0152
8	2013;11(8):3325 [23 pp.]	Manganous oxide	2010-0235
9	2013;11(8):3323 [14 pp.]	Thiazoles, thiophene, thiazoline and thienyl derivatives (chemical group 29): 3-acetyl-2,5-dimethylthiophene	2010-0116
10	2013;11(8):3324 [27 pp.]	Manganese chelate of amino acids, hydrate	2010-0069
11	2013;11(8):3322 [19 pp.]	Endofeed® DC (endo-1,3(4)-beta-glucanase and endo-1,4-beta-xylanase)	2009-0015
12	2013;11(7):3207 [18 pp.]	Hostazym C (endo-1,4-beta-glucanase)	2010-0062
13	2013;11(7):3287 [28 pp.]	Iron chelate of amino acids, hydrate	2010-0068
14	2013;11(7):3289 [26 pp.]	Vitamin D3 (cholecalciferol)	2010-0156
15	2013;11(7):3310 [18 pp.]	L-tyrosine	2010-0260
16	2013;11(7):3288 [14 pp.]	Brilliant Blue FCF (E133)	2010-0351
17	2013;11(7):3320 [15 pp.]	Quinoline Yellow (E104)	2010-0345
18	2013;11(7):3321 [26 pp.]	Rovabio® Excel (endo-1,3(4)-beta-glucanase and endo-1,4-beta-xylanase)	2010-0189
19	2013;11(5):3206 [14 pp.]	Lancer (lanthanide citrate)	2011-0050
20	2013;11(5):3203 [18 pp.]	Biomim® BBSH 797 - DSM 11798 Genus nov. (formerly Eubacterium) species nov.	2012-0024
21	2013;11(5):3205 [13 pp.]	Lactobacillus plantarum (NCIMB 40027)	2010-0259
22	2013;11(5):3208 [34 pp.]	Aliphatic and aromatic mono- and di-thiols and mono-, di-, tri-, and polysulphides with or without additional oxygenated functional groups (chemical group 20)	2010-0043
23	2013;11(5):3209 [20 pp.]	Betaine anhydrous	2010-0174
24	2013;11(5):3211 [19 pp.]	Betaine anhydrous	2010-0253
25	2013;11(5):3219 [18 pp.]	L-selenomethionine	2011-0028
26	2013;11(4):3169 [35 pp.]	Straight-chain primary aliphatic alcohols/aldehydes/acids, acetals and esters with esters containing saturated alcohols and acetals containing saturated aldehydes (chemical group 1)	2010-0015
27	2013;11(4):3168 [16 pp.]	Lactobacillus brevis (DSM 23251), Lactobacillus buchneri (DSM 22501), Lactobacillus buchneri (NCIMB 40788—CNCM I-4323), Lactobacillus buchneri (ATCC PTA-6138) and Lactobacillus buchneri (ATCC PTA-2494)	2010-0108
28	2013;11(4):3173 [13 pp.]	L-cystine	2010-0261
29	2013;11(4):3175 [14 pp.]	Provita LE (Enterococcus faecium DSM 7134 and Lactobacillus rhamnosus DSM 7133)	2010-0305
30	2013;11(4):3177 [10 pp.]	Lactobacillus kefirii BIO 94 IFA 94, DSM 19455	2012-0018
31	2013;11(4):3179 [21 pp.]	Preparation of bentonite-and sepiolite (Toxfin® Dry)	2011-0002
32	2013;11(3):3108 [13 pp.]	Patent Blue V (E 131)	2010-0344
33	2013;11(3):3178 [36 pp.]	Calcium iodate anhydrous (film granulated preparation)	2010-0370
34	2013;11(2):3100 [36 pp.]	Calcium iodate anhydrous	2010-0223
35	2013;11(2):3101 [34 pp.]	Calcium iodate anhydrous and potassium iodide	2010-0231
36	2013;11(2):3099 [34 pp.]	Calcium iodate anhydrous and potassium iodide	2010-0148
37	2013;11(2):3098 [15 pp.]	Cylactin® LBC MES PET/Cernivet® LBC MES PET (Enterococcus faecium NCIMB 10415)	2010-0294
38	2013;11(2):3097 [14 pp.]	Cylactin®/Cernivet® (Enterococcus faecium NCIMB 10415)	2009-0060
40	2013;11(2):3104 [36 pp.]	Vitamin C (L-ascorbic acid, sodium L-ascorbate, calcium L-ascorbate, 6-palmityl L-ascorbic acid, ascorbyl monophosphate calcium sodium salt)	2010-0185
41	2013;11(2):3103 [25 pp.]	Vitamin C (L-ascorbic acid and ascorbyl monophosphate calcium sodium salt)	2010-0214
42	2013;11(2):3107 [26 pp.]	Copper amino acid chelate hydrate (Availa® Cu)	2010-0070
43	2013;11(2):3102 [14 pp.]	Fumaric acid	2010-0134
44	2013;11(2):3105 [23 pp.]	Hostazym X (endo-1,4-beta-xylanase)	2010-0001
45	2013;11(1):3046 [30 pp.]	Hydroxy-analogue of selenomethionine	2011-0044
46	2013;11(1):3047 [23 pp.]	CAROPHYLL® Red 10% (preparation of canthaxanthin)	2010-0407
47	2013;11(1):3042 [11 pp.]	Bacillus amyloliquefaciens (NCIMB 30229)	2010-0192
48	2013;11(1):3043 [11 pp.]	Orthophosphoric acid	2010-0268
49	2013;11(1):3039 [13 pp.]	Clinoptilolite of sedimentary origin	2009-0017
50	2013;11(1):3038 [25 pp.]	Methionine-zinc, technically pure as amino acid	2010-0254

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 2013			
1	1404/2013 of 20 December 2013	Endo-1,4-beta-xylanase produced by <i>Aspergillus niger</i> (CBS 109.713) and endo-1,4-beta-glucanase produced by <i>Aspergillus niger</i> (DSM 18404)	2011-0003
2	1365/2013 of 18 December 2013	Alpha-galactosidase produced by <i>Saccharomyces cerevisiae</i> (CBS 615.94) and endo-1,4-beta-glucanase produced by <i>Aspergillus niger</i> (CBS 120604)	2012-0029
3	1222/2013 of 29 November 2013	Propionic acid, sodium propionate and ammonium propionate	2010-0356
4	1113/2013 of 7 November 2013	<i>Lactobacillus plantarum</i> NCIMB 40027, <i>Lactobacillus buchneri</i> DSM 22501, <i>Lactobacillus buchneri</i> NCIMB 40788/CNCM I-4323, <i>Lactobacillus buchneri</i> LN 40177/ATCC PTA-6138, and <i>Lactobacillus buchneri</i> LN 4637/ATCC PTA-2494	2010-0108; 2010-0259
5	1101/2013 of 6 November 2013	<i>Enterococcus faecium</i> DSM 7134 and <i>Lactobacillus rhamnosus</i> DSM 7133	2010-0305
6	1078/2013 of 31 October 2013	Fumaric acid	2010-0134
7	1077/2013 of 31 October 2013	<i>Enterococcus faecium</i> NBIMCC 8270, <i>Lactobacillus acidophilus</i> NBIMCC 8242, <i>Lactobacillus helveticus</i> NBIMCC 8269, <i>Lactobacillus delbrueckii</i> ssp. <i>lactis</i> NBIMCC 8250, <i>Lactobacillus delbrueckii</i> ssp. <i>bulgaricus</i> NBIMCC 8244, and <i>Streptococcus thermophilus</i> NBIMCC 8253	2010-0003
8	1061/2013 of 29 October 2013	<i>Enterococcus faecium</i> NCIMB 10415	2009-0060
9	1060/2013 of 29 October 2013	Bentonite	2010-0018; 2010-0233
10	1059/2013 of 29 October 2013	<i>Saccharomyces cerevisiae</i> MUCL 39885	2012-0030
11	1055/2013 of 25 October 2013	Orthophosphoric acid	2010-0268
12	1016/2013 of 23 October 2013	Micro-organism strain DSM 11798 of the <i>Coriobacteriaceae</i> family	2012-0024
13	1006/2013 of 18 October 2013	L-cystine	2010-0261
14	803/2013 of 22 August 2013	Folic acid	2010-0197
15	797/2013 of 21 August 2013	<i>Enterococcus faecium</i> NCIMB 11181	2009-0022
16	795/2013 of 21 August 2013	Choline chloride	2010-0024
17	787/2013 of 16 August 2013	<i>Bacillus subtilis</i> (ATCC PTA-6737)	2011-0034
18	775/2013 of 12 August 2013	<i>Enterococcus faecium</i> DSM 7134	2011-0012
19	774/2013 of 12 August 2013	<i>Lactobacillus kefirii</i> DSM 19455	2012-0018
20	725/2013 of 26 July 2013	Ammonium chloride	2010-0242
21	667/2013 of 12 July 2013	Diclazuril	2012-0004
22	651/2013 of 9 July 2013	Clinoptilolite of sedimentary origin	2009-0017
23	643/2013 of 4 July 2013	Patent Blue V	2010-0344
24	642/2013 of 4 July 2013	Niacin and niacinamide	2010-0307; 2010-0265; 2010-0112; 2010-0263; 2010-0198
25	636/2013 of 1 July 2013	Zinc chelate of methionine (1:2)	2010-0254
26	601/2013 of 24 June 2013	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
27	544/2013 of 14 June 2013	<i>Bifidobacterium animalis</i> ssp. <i>animalis</i> DSM 16284, <i>Lactobacillus salivarius</i> ssp. <i>salivarius</i> DSM 16351 and <i>Enterococcus faecium</i> DSM 21913	2009-0034
28	469/2013 of 22 May 2013	DL-methionine, DL-methionine sodium salt, hydroxy analogue of methionine, calcium salt of hydroxy analogue of methionine, isopropyl ester of hydroxy analogue of methionine, DL-methionine protected with copolymer vinylpyridine/styrene and DL-methionine protected with ethylcellulose	2010-0023
29	445/2013 of 14 May 2013	Hydroxy-analogue of selenomethionine	2011-0044
30	427/2013 of 8 May 2013	Selenomethionine produced by <i>Saccharomyces cerevisiae</i> NCYC R646	2010-0044; 2009-0029
31	413/2013 of 6 May 2013	<i>Pediococcus acidilactici</i> CNCM MA 18/5M	2009-0025; 2009-0026
32	403/2013 of 2 May 2013	Endo-1,4-beta-xylanase, endo-1,3(4)-beta-glucanase and endo-1,4-beta-glucanase produced by <i>Trichoderma reesei</i> (ATCC 74444)	2007-0036
33	374/2013 of 23 April 2013	<i>Clostridium butyricum</i> (FERM BP-2789)	2012-0012
34	308/2013 of 3 April 2013	<i>Lactobacillus plantarum</i> (NCIMB 30083 and NCIMB 30084)	2010-0388
35	306/2013 of 2 April 2013	<i>Bacillus subtilis</i> (ATCC PTA-6737)	2008-0039
36	161/2013 of 21 February 2013	Sodium hydroxide	2011-0006
37	159/2013 of 21 February 2013	Sodium benzoate, propionic acid and sodium propionate	2010-0376
38	96/2013 of 1 February 2013	<i>Lactobacillus buchneri</i> NCIMB 30139 and of a preparation of <i>Lactobacillus casei</i> ATCC PTA 6135	2010-0302; 2010-0106
39	95/2013 of 1 February 2013	<i>Pediococcus acidilactici</i> CNCM MA 18/5M	2011-0052

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

Executive summary of the Workshop 2013 of the EURL-FA Authorisation

The 13th workshop of the EURL Feed Additives Authorisation (EURL-FA) was organised in collaboration with the Dutch National Reference Laboratory (RIKILT) in Wageningen on November 25-26, 2013. Thirty-five participants, representing 26 National Reference Laboratories (NRLs), DG SANCO, EFSA and the EURL-FA, attended the event.

Professor Robert van Gorcom (Director of RIKILT) welcomed the participants and briefly presented the Wageningen University and Research Centre. The workshop continued with presentations from the main stakeholders and technical/scientific discussions.

Marta Ponghellini (DG SANCO) presented the new functional group of technological feed additives introduced by the Commission for the "reduction of contamination of feed by mycotoxins". Matteo Innocenti (EFSA) reviewed the status of the re-authorisation exercise and concluded that the EURL issued already 76% of the expected final reports relating to Art. 10; in this context ca. 100 reports remain to be drafted in the next three years. Christoph von Holst and other representatives from the EURL-FA presented: (i) an overview of the EURL 2013 activities, acknowledging the effective support from the NRL partners; (ii) the new requirements set by the Commission for the evaluation of the "mycotoxin binding capacity" of bentonite and equivalent clays; and (iii) the future challenges for feed additives related to nanomaterials. Four additional scientific topics completed the agenda relating to: (a) the enumeration of several probiotics and the revision of the respective CEN methods; (b) the quantification of Diclazuril in feed and the review of the corresponding Community method; (c) the applicability of EN ISO 30024 for the determination of phytase activity in feed, in the absence of the recommended substrate (not available on the market in 2013); and (d) the importance of the right selenium dosage in animal diets.

The organisers of the event thanked the participants for their enthusiastic contribution and announced the next workshop which will be held at the JRC IRMM in Geel to celebrate the 10th Anniversary of the EURL.

Part 2: Activities of the EURL-FA Control

Legal background

As introduced above, the European Union Reference Laboratory for Feed additives (EURL-FA) has two mandates, the authorisation of feed additives according to Regulation (EC) No 1831/2003 and Regulation (EC) No 378/2005 and the control activities according to the Regulation (EC) No 882/2004. In the frame of the latter legislation and as a follow-up of 2012, the EURL-FA Control has been mandated by DG SANCO to organize a proficiency test (PT) among appointed National Reference Laboratories (NRLs) in order to assess their capacity to correctly determine selected coccidiostats among the 11 authorized coccidiostats at cross-contamination level, in feed matrices as specified in Commission Regulation (EU) No 574/2011. National Reference Laboratories and Official Control laboratories are in charge of implementing the surveillance monitoring control plan in the Member States as regards these substances in animal feed. This PT, organized by the EURL-FA Control, was the second one performed in this field and aiming at providing insight to the performance of the Member States official laboratories on determining coccidiostats at low level in animal feed in Europe. As part of its mandate the EURL-FA Control also concluded this exercise with the organization of its 2nd workshop with the consortium of NRLs according to Regulation (EC) No 882/2004.

Executive summary of the Workshop 2013 of the EURL-FA Control

The 2nd Workshop of the EURL-FA Control and the consortium of National Reference Laboratories (NRLs) was organised at the JRC-IRMM on November 12-13, 2013. This 2nd Workshop was the concluding event for the organisation of a second Proficiency Test (PT) exercise for the determination of coccidiostats at cross-contamination level in feedingstuffs. In addition it gave the opportunity to exchange with the NRLs activities carried out in the field of analysis of feed additives and to report on problems encountered and on the usefulness of the network to help solving analytical issues. Participants were therefore invited beforehand to present topics of interest and/or of concern at the workshop. A total of thirty-seven participants attended the event, representing 18 National Reference Laboratories (NRLs), 4 National Official Control Laboratories (OCLs), DG Health and Consumers, and the EURL-FA.

The results from the PT exercise were presented as well as the latest developments in the field of the analysis of specific feed additives and contaminants in feed. Furthermore, discussions allowed many fruitful exchange of information between the participants about the application of analytical methods. Finally a presentation elaborated on the impact of coccidiosis on the industrial production of poultry, which is the major reason that coccidiostats are the only antibiotics still authorised as feed additives.

The last presentation given on the work programme of the EURL-FA Control for next year gave the direction the EURL-FA Control network should follow but also opened once more the door to the needs and expectations of the NRLs for the years to come still in the same perspective as last year of enhancing harmonisation of measurements in EU.

The collected evaluation forms indicate the satisfaction of the participants and the areas to improve.

Proficiency test (PT) exercise 2013 - Coccidiostats at cross-contamination levels in feedingstuffs

Thirty-four laboratories were invited and thirty-two laboratories from 22 countries registered to the 2013 PT exercise. The participating laboratories consisted of NRLs belonging to the EURL-FA Authorisation and to the EURL-FA Control networks and of National Official Control Laboratories including a laboratory from Switzerland.

The test items used in this exercise were produced by the EURL-FA Control by spiking milled blank poultry feed with 7 selected coccidiostats standard solutions (monensin, narasin, lasalocid, nicarbazin, maduramicin, halofuginone and diclazuril). The first test item consisted of a blank poultry feed spiked with narasin, maduramicin and monensin (MAT 1). The second test item was spiked with lasalocid, nicarbazin, diclazuril and halofuginone (MAT 2) and the third test item was a pig feed left as a blank (MAT 3, free of coccidiostats). All spiked feed materials (MAT 1 and MAT 2) were tested for homogeneity and stability before the exercise and subsequently distributed to the participating laboratories. The laboratories applied their own analytical methodology for the analysis of the test samples. Most of the participants applied multi-analyte methods based on liquid chromatography with mass spectrometry detection.

Thirty laboratories reported quantitative results for monensin and narasin 29 for lasalocid, 28 for nicarbazin and maduramicin, 26 for diclazuril and 19 for halofuginone. The laboratories also reported qualitative results as regards to the presence or absence of the other authorised coccidiostats in the test items.

Laboratory results were rated using z- and ζ -scores (zeta-scores) in accordance with ISO 13528. z-scores were considered satisfactory if their absolute values were equal to or below 2.

Between 64 % and 80 % of the laboratories reported satisfactory results for monensin, narasin, nicarbazin and maduramicin. For lasalocid, only 59 % of the laboratories submitted satisfactory results, 58 % for diclazuril and 53 % for halofuginone. The laboratories also reported qualitative results as regards the presence of one or more of the other authorised coccidiostats. On the whole, the rate of false positive results was 6 % for lasalocid, 4 % for maduramicin, 5 % for halofuginone, 3 % for robenidine and 0 % for all the others.

References to Part 2: Activities of the EURL-FA Control

- *Proceedings of the 2nd Workshop of the European Union Reference Laboratory & National Reference Laboratories for Feed Additives – Control*, Ursula Vincent, George Kaklamanos, Piotr Robouch, Mostafa Chedin, Federica Serano, Machteld De Smet, Christoph von Holst, *JRC Technical Reports*, JRC 88399, 2014.
- *Results for the determination of authorised coccidiostats at cross-contamination level in animal compound feed - EURL Feed Additives Control Proficiency test exercise 2013*, Ursula Vincent, Mostafa Chedin, George Kaklamanos, Christoph von Holst, *JRC Scientific and Policy Reports*, JRC 85376 EN, 2013.
- *Proficiency of official control European laboratories in the determination of authorised coccidiostats in poultry feed - EURL Feed Additives Control PT exercise 2013 Cross-contamination level*, Ursula Vincent, Mostafa Chedin, George Kaklamanos, Christoph von Holst, *JRC Scientific and Policy Reports*, JRC 87389 EN, EUR report 26418 EN, ISBN 978-92-79-35042-9 (pdf), ISSN 1831-9424 (online), doi:10.2787/84532, 2013.

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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 workshops which was indispensable for the successful operation of the evaluation procedure and for sharing information and knowledge. The list of NRLs is provided hereafter.

Finally we would like to wish all the best to the former colleagues - Maritta Drooghmans and Georgios Kaklamanos who left the EURL team. Their valuable contribution was essential to the successful activities of the EURL.

The EURL-FA Authorisation Network List





(updated on 25/07/2014)

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 Bayerischen 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), Centro di Referenza Nazionale per la Sorveglianza e il Controllo degli Alimenti per gli Animali (C.Re.A.A.), 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

The EURL-FA Control Network List

(updated on 25/07/2014)

Country	National Reference Laboratory
	- Ústřední kontrolní a zkušební ústav zemědělský (ÚKZÚZ), Praha, CZ
	- Danish Veterinary and Food Administration, Feed Laboratory, Lyngby, DK Ministeriet for Fødevarer, Landbrug og Fiskeri, Fødevarestyrelsen, Laboratoriet i Ringsted, Lyngby, DK
	- Bundesinstitut für Risikobewertung (BfR), federal Institute for Risk Assessment, Berlin, DE
	- Veterinary and Food Laboratory, Tartu, EE
	- Service Commun des Laboratoires - Laboratoire de Rennes (SCL 35), Rennes, FR ¹
	- The State Laboratory, Celbridge Co. Kildare, IE
	- Istituto Superiore di Sanità (ISS), Dipartimento di Sanità Pubblica Veterinaria e Sicurezza Alimentare, Roma. IT - Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta, S.S. Ricerca Residui, PLVA- lab. Ricerca Residui, Torino. IT.
	- National Institute of Nutrition and Seafood Research (NIFES), Bergen, NO
	- Österreichische Agentur für Gesundheit und Ernährungssicherheit (AGES), Wien. AT
	- Państwowy Instytut Weterynaryjny, Pulawy. PL
	European Commission, Joint Research Centre, Institute for Reference Materials and Measurements (IRMM). EU

¹ For 2013 exercise, French laboratory was not yet officially the NRL for the control part; the laboratory became official NRL from 2014.

Annex I

List of EURL FAD reports issued in 2013

(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 No²	Product Name	Active Substance(s)	Published on	NRL
2013-0013	Enzy Carboplus & Enzy Carboplus L [®]	Xylanase (EC 3.2.1.8) & β -Glucanase (EC 3.2.1.6)	11/12/2013	
2013-0034	Deccox [®]	Decoquinat	04/12/2013	
2010-0266 2013-0026	Sodium alginate (E401) & Potassium alginate (E402)	Sodium alginate & Potassium alginate	04/12/2013	
2013-0025	L-tryptophan	L-tryptophan	03/12/2013	
2013-0028	L-threonine	L-threonine	03/12/2013	
2013-0021	Potassium diformate	Potassium diformate	14/11/2013	
2010-0359 2012-0014	Polyethyleneglycol ester of fatty acids from soya oil (E487)	Polyethyleneglycol ester of fatty acids from soya oil	29/10/2013	
2012-0043	Fluidol	Mixture of dolomite, magnesite and magnesiumphyllosilicates	24/10/2013	
2013-0014	Coxiril	Diclazuril	15/10/2013	
2010-0126	Glyceryl polyethyleneglycol ricinoleate (E484)	Glyceryl polyethyleneglycol ricinoleate	30/09/2013	
2011-0002 ³	Toxfin Dry	Bentonite-Montmorillonite; Sepiolite	17/09/2013	
2012-0025	Natural mixture of illite, montmorillonite and kaolinite		16/09/2013	
2012-0044	Enzy Phostar & Enzy Phostar L [®]	6-phytase (E.C. 3.1.3.26)	10/09/2013	
2012-0038	MycoCell	Saccharomyces cerevisiae, NCYC R404	06/09/2013	
2010-0177	Vitamin B2	Riboflavin	03/09/2013	
2013-0002	FUMzyme [®]	Fumonisin esterase (EC 3.1.1.87)	02/09/2013	
2013-0009	Deccox [®]	Decoquinat	26/08/2013	
2011-0053	L-Valine	L-Valine	21/08/2013	
2012-0037	Avimatrix [®]	Benzoic acid, Calcium formate, Fumaric acid	19/08/2013	
2010-0218	BDG 06	Botanically defined flavourings	02/08/2013	
2012-0042	Mintrex [®] Se	DL-Selenomethionine	12/06/2013	

² <https://ec.europa.eu/jrc/en/eurl/feed-additives/evaluation-reports>

³ Addendum to the EURL report FAD-2011-0002 JRC.DG.D6/CvH/ZE/mds/ARES(2011)1265818

FAD No⁴	Product Name	Active Substance(s)	Published on	NRL
2010-0173 2010-0199 2010-0326	Vitamin B12/Cyanocobalamin	Vitamin B12/Cyanocobalamin	03/06/2013	VFUNIV-SI ⁵
2012-0028	L-Valine	L-Valine	02/05/2013	
2010-0354	BDG 20	Botanically defined flavourings	29/04/2013	
2012-0015	Quantum Blue (5L, 10L, 5G, 40P)	6-phytase	29/04/2013	
2011-0043	Guanidinoacetic acid	Guanidinoacetic acid	29/04/2013	
2012-0026	Lenziaren	Iron, -aqua, -carbonate, -hydroxy, -oxo starch sucrose complex	21/03/2013	
2010-0262	Vitamin B2	Riboflavin	27/02/2013	
2010-0353	Amylofeed [®]	endo-1,3(4)-beta-glucanase (EC 3.2.1.6); endo-1,4-beta-xylanase (EC 3.2.1.8); alpha-amylase (EC 3.2.1.1)	22/02/2013	
2012-0024	Biomin BBSH 797	Genus novus of the Coriobacteriaceae, DSM 11798	14/02/2013	
2012-0023	L-valine	L-valine	12/02/2013	
2010-0018 ⁶	Mycifix(R)Secure	Bentonite (Dioctahedral Montmorillonite)	12/02/2013	

⁴ <https://ec.europa.eu/jrc/en/eurl/feed-additives/evaluation-reports>

⁵ Univerza v Ljubljani, Veterinarska fakulteta. Nacionalni veterinarski inštitut, Enota za patologijo prehrane in higieno okolja, Ljubljana (Slovenia)

⁶ Addendum to the EURL report FAD-2010-0018 (JRC.DG.D6/CvH/RMO/ag/ARES(2010)593553)

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European Commission

JRC91864 - Joint Research Centre – Institute for Reference Materials and Measurements

Title: Activity Report 2013 European Reference Laboratory for Feed Additives (EURL-FA) - Authorisation and Control

Authors: Christoph Von Holst, Stefano Bellorini, Mostafa Chedin, Gilda D'Arco, Machteld De Smet, Maritta Drooghmans,
Rebeca Fernandez Orozco, Maria Jose Gonzalez de la Huebra, Georgios Kaklamanos, Johanna Keltti, Edit Kovacs, Piotr
Robouch, Federica Serano, Ursula Vincent and Zigmantas Ezerskis (Editor)

2014 – 22 pp. – 21.0 x 29.7 cm



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