

# JRC SCIENTIFIC AND POLICY REPORTS

## Activity Report 2012

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

**C. von Holst, S. Bellorini, M. Chedin,  
M. De Smet, M. Drooghmans,  
M. J. Gonzalez de la Huebra, A. Gorcsi,  
G. Kaklamanos, J. Keltti, D. Mitić,  
C. M. Pinto, P. Robouch, F. Serano,  
U. Vincent and Z. Ezerskis (Editor)**

2013

Report JRC85627



European Commission

**DG Joint Research Centre**

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 14 57 1221**

**Fax: +32 14 57 1787**

**<http://irmm.jrc.ec.europa.eu/>**

**<http://www.jrc.ec.europa.eu/>**

Legal Notice

**Neither the European Commission nor any person acting on behalf of the Commission is responsible for the use which might be made of this publication.**

**Europe Direct is a service to help you find answers to your questions about the European Union  
Freephone number (\*): 00 800 6 7 8 9 10 11**

**(\*): Certain mobile telephone operators do not allow access to 00 800 numbers or these calls may be billed.**

**A great deal of additional information on the European Union is available on the Internet.  
It can be accessed through the Europa server <http://europa.eu/>.**

**JRC85627**

**© European Union, 2013**

**Reproduction is authorised provided the source is acknowledged.**

Printed in Belgium

## Table of Contents

Executive summary	2
Part 1: Activities of the EURL-FA Authorisation	3
- Sample Registration	4
- Evaluation of Dossiers	4
- Executive summary of the Workshop 2012 of the EURL-FA Authorisation	11
Part 2: Activities of the EURL-FA Control	12
- Legal background	13
- Executive summary of the Workshop 2012 of the EURL-FA Control	14
- PT exercise 2012-Coccidiostats at cross-contamination levels in feedingstuffs	15
- European Standard EN 16158:2012	16
- Acknowledgements	17
- The EURL-FA (Authorisation & Control) Network List	18
- Annex I: List of the EURL FAD reports issued in 2012	20

## **Executive summary** (*Christoph von Holst*)

In this report the team of the European Union Reference Laboratory for feed additives (EURL-FA) presents the main achievements for 2012. 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 additive 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 and DG Health and Consumers; 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 levels in feedingstuffs;
- The finalisation of the European standard EN 16158:2012 for the determination of feed additives containing semduramicin; and
- 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** (by Z. Ezerskis)

The brief overview of the internal procedures for feed additives sample registration were given in the previous report<sup>(\*)</sup>.

A total of 329 reference samples were received in 2012. Among them, 288 were for the replacement of the expired samples and 41 as new samples. During the year the flow of incoming samples was constant (the highest level was reached in June with 41 samples). No problems of handling, registration or storing of the samples occurred. Furthermore, considering the declarations of the concerned Applicants, the shelf life of 49 samples was extended and therefore modified, which implied additional administrative work for EURL staff.

### **Evaluation of Dossiers** (by Z. Ezerskis)

The tasks of the EURL, EFSA and DG SANCO in the authorisation process of feed additives were briefly outlined in the previous report<sup>(\*)</sup>.

In 2012 the EURL-FA Authorisation, together with the National Reference Laboratories (NRLs), evaluated the analytical methods related to 92 applications, resulting in 59 reports. Table 2 presents the number of applications evaluated and the corresponding evaluation reports released in the past 4 years, while Figure 1 depicts 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 huge re-authorisation exercise of feed additives authorised under previous legislation and which started in 2010.

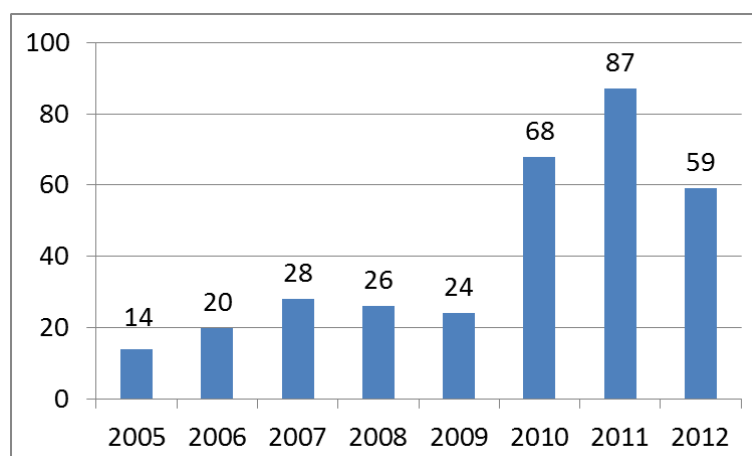
**Table 2.** Number of applications evaluated and evaluation reports issued since 2009

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

---

<sup>(\*)</sup> Activity report 2010-2011 of the European Reference Laboratory for Feed Additives – Authorisation

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



In 2012, eight reports were outsourced to and drafted by six NRL rapporteurs as mentioned in the corresponding reports accordingly (see Annex I).

The EURL managed also in 2012 the evaluation of the submitted applications respecting the deadlines established by European legislation. The complete list of issued reports in 2012 is provided in Annex I. All reports are available from the EURL webpage:

[http://irmm.jrc.ec.europa.eu/EURLs/EURL\\_feed\\_additives/authorisation/evaluation\\_reports/](http://irmm.jrc.ec.europa.eu/EURLs/EURL_feed_additives/authorisation/evaluation_reports/).

A detailed overview is presented in Table 3 showing the various categories and functional groups reviewed. This includes 27 technological, 19 zootechnical, 14 nutritional, 8 sensory and 1 coccidiostats & histomonostats 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 allows the experts of the NRL network to contribute with their specific experience to the reviewing of the reports providing thus an added value to the evaluation reports. Figure 2 shows the NRLs' activity review process in 2012 and the following NRLs commented to more than 20 initial reports: CZ-UKZUZ; DK-PD; DE-LGL; DE-TLL; IT-CReAA; PL-PIWET and AT-AGES. 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 the European Food Safety Authority (EFSA) and to the Commission, Directorate General for Health and Consumers (DG SANCO).

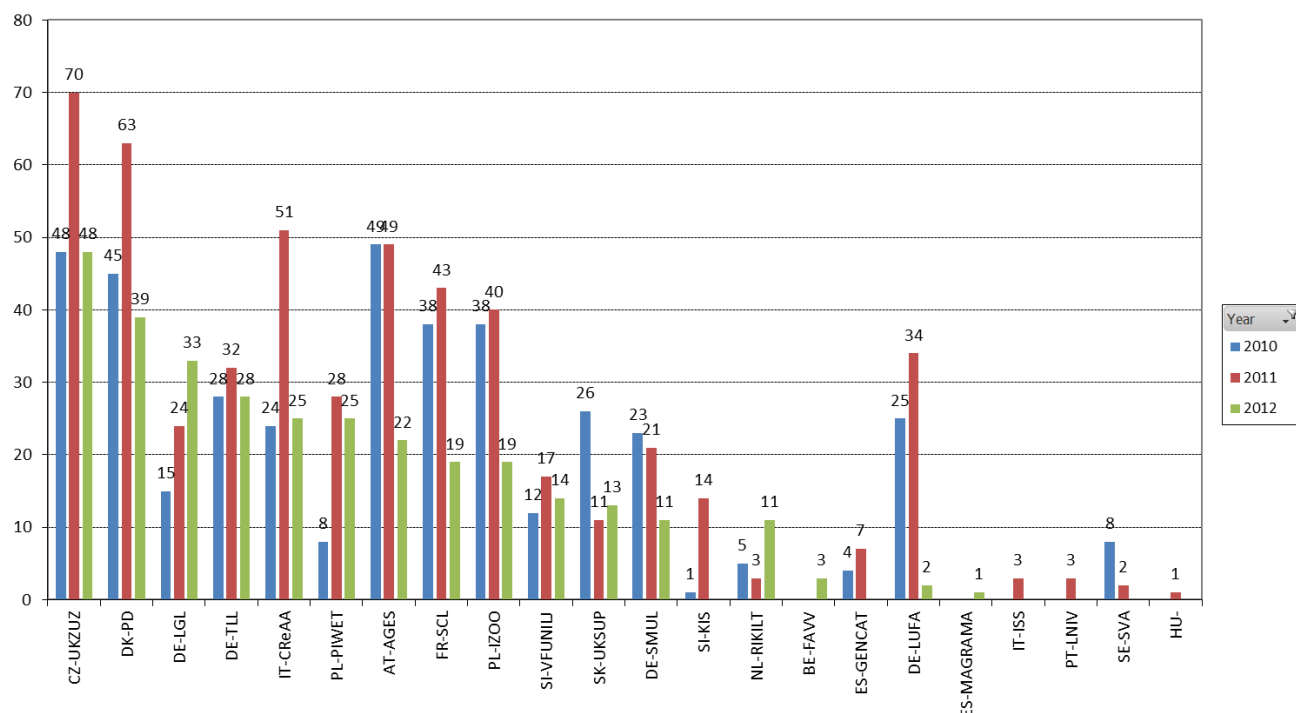
**Table 3.** Categories / functional groups of feed additives evaluated in 2012

Category		Functional Group	2012
1	technological	a preservatives	4
		b antioxidants	3
		c emulsifiers	3
		d stabilisers	3
		e thickeners	2
		f gelling agents	2
		g binders	2
		h substances for control of radionuclide contamination	
		i anticaking agents	1
		j acidity regulators	1
		k silage additives	5
		l denaturants	
		m mycotoxin binders	1
2	sensory	a colourants	7
		b flavouring compounds	1
3	nutritional	a vitamins, pro-vitamins	4
		b compounds of trace elements	7
		c amino acids	3
		d urea and its derivatives	
4	zootechnical	a digestibility enhancers	9
		b gut flora stabilisers: micro-organisms	5
		c substances which favourably affect the environment	1
		d other zootechnical additives	4
5	coccidiostats & histomonostats		1

**Total 69**



**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)

DK-PD – Fødevarestyrelsen, Ringsted (Denmark)

DE-LGL – Bayerisches Landesamt für Gesundheit und Lebensmittelsicherheit (LGL), Landesinstitut: Spezialeinheit Tiergesundheit; Futtermittel (TF), Sachgebiet TF4 (Futtermittel), Oberschleißheim (Germany)

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

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)

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

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

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

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

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

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

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

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

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)

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

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

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

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

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

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

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

The executive summaries of the EURL-FA Authorisation reports are included in EFSA's 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 4 summarises the impact of the EURL-FA Authorisation reports on EFSA's opinions and Commission Implementing Regulations. Moreover, the Tables 5 and 6 show the specific EFSA opinions and Commission Implementing Regulation that made reference to the EURL evaluation in 2012.

**Table 4.** Impact of EURL-FA Authorisation report: Opinions of EFSA and Commission Implementing Regulations (CIR) authorising the feed additives

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

**Table 5.** EURL executive summaries included in EFSA opinions

	EFSA Journal reference	Feed additives/Active substances	Dossier number
	<b>in 2012</b>		
1	2012;10(12):2969 [38 pp.]	Cupric sulphate pentahydrate	2010-0331
2	2012;10(12):2968 [26 pp.]	Vitamin D3 (cholecalciferol)	2010-0146
3	2012;10(12):2964 [14 pp.]	Prostora Max (Bifidobacterium animalis AHC7)	2009-0037
4	2012;10(11):2967 [17 pp.]	Aliphatic and alicyclic ethers (chemical group 16)	2010-0042
5	2012;10(11):2966 [24 pp.]	Saturated and unsaturated tertiary alcohols and esters) (chemical group 6)	2010-0025
6	2012;10(11):2970 [24 pp.]	Zinc oxide	2010-0072
7	2012;10(10):2924 [32 pp.]	Toyocerin (Bacillus cereus) NCIMB 40112/CNCM I-1012	2008-0009
8	2012;10(10):2928 [24 pp.]	Aliphatic alcohols/aldehydes/acids/acetals/esters/lactones (chemical group 9)	2010-0097
9	2012;10(10):2927 [26 pp.]	Primary aliphatic alcohols/aldehydes/acids, acetals and esters (chemical group 2)	2010-0013
10	2012;10(10):2882 [10 pp.]	Sodium hydroxide	2011-0006
11	2012;10(9):2884 [14 pp.]	Lactobacillus salivarius (CNCM I-3238–ATCC 11741) and Lactobacillus casei (32909–ATCC PTA-6135)	2010-0106
12	2012;10(9):2883 [11 pp.]	Lactobacillus buchneri (NCIMB 30139)	2010-0302
13	2012;10(7):2778 [17 pp.]	Saccharomyces cerevisiae NCYC R646 (Selemax 1000/2000)	2010-0044
14	2012;10(7):2843 [13 pp.]	Feedlyve AXC (endo-1,4-beta-xylanase - EC 3.1.2.8)	2008-0004
15	2012;10(7):2775 [11 pp.]	VevoVital® (benzoic acid)	2010-0029
16	2012;10(7):2777 [14 pp.]	Ronozyme RumiStar (alpha-amylase)	2010-0009
17	2012;10(7):2785 [30 pp.]	Benzyl alcohols, aldehydes, acids, esters and acetals (chemical group 23)	2010-0028
18	2012;10(7):2781 [19 pp.]	Niacin (nicotinic acid and nicotinamide)	2010-0265
19	2012;10(7):2789 [18 pp.]	Niacin (nicotinamide)	2010-0263
20	2012;10(7):2786 [16 pp.]	Furanones and tetrahydro-furfuryl derivatives (chemical group 13)	2010-0119
21	2012;10(7):2788 [19 pp.]	Niacin (nicotinic acid and nicotinamide)	2010-0112
22	2012;10(7):2790 [21 pp.]	Endo-1,4-xylanase (Ronozyme WX)	2008-0013
23	2012;10(7):2791 [27 pp.]	Cobaltous acetate tetrahydrate, basic cobaltous carbonate monohydrate, cobaltous sulphate	2010-0337
24	2010;10(7):2787 [19 pp.]	Bentonite (bentonite-montmorillonite)	2010-0233
25	2012;10(7):2782 [26 pp.]	Cobaltous carbonate monohydrate	2010-0371
26	2012;10(7):2780 [15 pp.]	Lactobacillus plantarum (DSM 3676 and DSM 3677) and Lactobacillus buchneri (DSM 13573)	2010-0387
27	2012;10(7):2779 [15 pp.]	Codium benzoate	2010-0375
28	2012;10(7):2783 [14 pp.]	Tocopherol-rich extracts of natural origin/delta rich, synthetic tocopherol	2010-0105
29	2012;10(7):2784 [10 pp.]	Synthetic alpha-tocopherol	2010-0271
30	2012;10(6):2735 [10 pp.]	Potassium sorbate	2010-0114
31	2012;10(6):2736 [17 pp.]	Taurine	2010-0215
32	2012;10(6):2737 [33 pp.]	Beta-Carotene	2009-0046
33	2012;10(6):2729 [12 pp.]	Smoke flavouring product (Scansmoke SEF7525)	2010-0400
34	2012;10(6):2738 [18 pp.]	Ammonium chloride	2010-0242
35	2012;10(6):2734 [23 pp.]	Zinc sulphate monohydrate	2010-0059
36	2012;10(6):2732 [36 pp.]	Lactobacillus plantarum (18 strains)	2010-0048
37	2012;10(6):2730 [9 pp.]	Ronozyme HiPhos GT (6-phytase)	2011-0042
38	2012;10(6):2727 [27 pp.]	Cobaltous carbonate	2010-0402
39	2012;10(6):2733 [15 pp.]	Pediococcus: acidilactici (CNCM:I-3237;MA 18/5M), pentosaceus (DSM 23376,	2010-0127
40	2012;10(6):2739 [11 pp.]	Danisco Xylanase 40000 G/L (endo-1,4-xylanase)	2011-0030
41	2012;10(6):2728 [10 pp.]	AveMix® XG 10 (endo-1,4-beta-xylanase and endo-1,3(4)-beta-glucanase)	2009-0062
42	2012;10(6):2731 [18 pp.]	Niacin (nicotinamide)	2010-0307
43	2012;10(5):2677 [20 pp.]	L-Carnitine	2010-0225
44	2012;10(5):2675 [14 pp.]	Allura Red AC	2010-0347
45	2012;10(5):2676 [23 pp.]	L-Carnitine and L-Carnitine L-Tartrate	2010-0144
46	2012;10(5):2674 [18 pp.]	Folic acid	2010-0197
47	2012;10(5):2672 [19 pp.]	Zinc chloride hydroxide hydrate (tetra-basic zinc chloride)	2011-0007
48	2012;10(5):2673 [10 pp.]	Propionibacterium acidipropionici (CNCM MA 26/4U)	2010-0255
49	2012;10(5):2670 [11 pp.]	Sorbic acid, citric acid, thymol and vanillin	2008-0049
50	2012;10(5):2678 [19 pp.]	Aromatic ethers including anisole derivatives (chemical group 26)	2010-0054
51	2012;10(5):2679 [15 pp.]	Aliphatic and aromatic amines (chemical group 33)	2010-0082
52	2012;10(5):2671 [8 pp.]	Bacillus subtilis PB6 (ATCC PTA-6737)	2008-0039
53	2012;10(3):2623 [42 pp.]	Methionine Group (7 individual active substances)	2010-0023
54	2012;10(3):2617 [11 pp.]	Lactobacillus brevis DSMZ 21982	2010-0278
55	2012;10(3):2624 [12 pp.]	Urea	2010-0113
56	2012;10(3):2620 [22 pp.]	Crina® Poultry Plus (benzoic acid and three essential oil compounds (thymol, eugenol and piperine)	2010-0093
57	2012;10(3):2621 [22 pp.]	Zinc chelate of amino acids hydrate	2010-0063
58	2012;10(3):2619 [9 pp.]	Phyzyme XP (6-phytase)	2011-0015
59	2012;10(3):2625 [16 pp.]	Phenyl ethyl alcohols, phenylacetic acids/esters, phenoxyacetic acids/esters (chemical group 15)	2010-0027
60	2012;10(3):2622 [14 pp.]	Alicyclic and aromatic lactones - 3 chemically defined chemicals (chemical group 11)	2010-0089
61	2012;10(2):2570 [12 pp.]	Carmoisine	2010-0348
62	2012;10(2):2573 [19 pp.]	Phenol derivatives containing ring-alkyl, ring-alkoxy, and oxygenated side-chains (chemical group 25)	2009-0050
63	2012;10(2):2571 [15 pp.]	Acetic acid, sodium diacetate and calcium acetate	2010-0161
64	2012;10(2):2569 [11 pp.]	Amoklor (ammonium chloride)	2010-0037
65	2012;10(2):2574 [15 pp.]	Lactifer® (Enterococcus faecium M74® NCIMB 11181)	2009-0022
66	2012;10(2):2575 [10 pp.]	Natugrain® Wheat TS (endo-1,4-beta-xylanase)	2010-0034
67	2012;10(2):2572 [22 pp.]	Zinc sulphate monohydrate	2010-0228
68	2012;10(1):2527 [12 pp.]	Ronozyme® HiPhos (M) (L) (6-phytase)	2010-0019
69	2012;10(1):2532 [15 pp.]	Propenylhydroxybenzenes – Isoeugenol (chemical group 17)	2010-0065
70	2012;10(1):2530 [11 pp.]	Potassium diformate	2010-0188
71	2012;10(1):2529 [11 pp.]	Lactobacillus plantarum (NCIMB 41028) and Lactobacillus plantarum (NCIMB 30148)	2010-0280
72	2012;10(1):2531 [12 pp.]	Actisaf Sc47 (Saccharomyces cerevisiae NCYC Sc47)	2010-0038
73	2012;10(1):2533 [9 pp.]	QuantumTM (6-phytase)	2005-0028
74	2012;10(1):2526 [7 pp.]	Rosemary extract liquid of natural origin	2004-0003

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

EURL reports on: [http://irmm.jrc.ec.europa.eu/EURLs/EURL\\_feed\\_additives/authorisation/evaluation\\_reports/](http://irmm.jrc.ec.europa.eu/EURLs/EURL_feed_additives/authorisation/evaluation_reports/)

**Table 6.** Commission Implementing Regulations supported by the EURL-FA recommendations

	Commission Implementing Regulation (EU) No	Feed additives/active substance	Dossier Number
in 2012			
1	1265/2012 of 17 December 2012	6-phytase produced by <i>Aspergillus oryzae</i> (DSM 22594)	2011-0042
2	1206/2012 of 14 December 2012	endo-1,4-beta-xylanase produced by <i>Aspergillus oryzae</i> (DSM 10287)	2008-0013
3	1195/2012 of 13 December 2012	endo-1,4-beta-xylanase produced by <i>Trichoderma koningii</i> (MUCL 39203)	2008-0004
4	1196/2012 of 13 December 2012	endo-1,4- beta-xylanase produced by <i>Trichoderma reesei</i> (ATCC PTA 5588)	2011-0030
5	1119/2012 of 29 November 2012	<i>Pediococcus acidilactici</i> CNCM MA 18/5M DSM 11673, <i>Pediococcus pentosaceus</i> DSM 23376, NCIMB 12455 and NCIMB 30168, <i>Lactobacillus plantarum</i> DSM 3676 and DSM 3677 and <i>Lactobacillus buchneri</i> DSM 13573	2010-0127; 2010-0387
6	1065/2012 of 13 November 2012	<i>Lactobacillus plantarum</i> (DSM 23375, CNCM I-3235, DSM 19457, DSM 16565, DSM 16568, LMG 21295, CNCM MA 18/5U, NCIMB 30094, VTT E-78076, ATCC PTSA-6139, DSM 18112, DSM 18113, DSM 18114, ATCC 55943 and ATCC 55944)	2010-0048
7	1021/2012 of 6 November 2012	endo-1,4-beta-xylanase produced by <i>Trichoderma reesei</i> (ATCC PTA 5588)	2011-0030
8	1019/2012 of 6 November 2012	endo-1,4- beta-xylanase produced by <i>Aspergillus niger</i> (CBS 109.713)	2010-0034
9	990/2012 of 25 October 2012	<i>Propionibacterium acidipropionici</i> (CNCM MA 26/4U)	2010-0255
10	989/2012 of 25 October 2012	endo-1,4-beta-xylanase produced by <i>Trichoderma reesei</i> (MULC 49755) and endo-1,3(4)-beta-glucanase produced by <i>Trichoderma reesei</i> (MULC 49754)	2008-0011
11	991/2012 of 25 October 2012	zinc chloride hydroxide monohydrate	2011-0007
12	869/2012 of 24 September 2012	thaumatin	2010-0138
13	870/2012 of 24 September 2012	naringin	2010-0129
14	868/2012 of 24 September 2012	azorubine (carmoisine)	2010-0348
15	849/2012 of 19 September 2012	preparation of citric acid, sorbic acid, thymol and vanillin	2008-0049
16	837/2012 of 18 September 2012	6-phytase (EC 3.1.3.26) produced by <i>Aspergillus oryzae</i> (DSM 22594)	2011-0042
17	841/2012 of 18 September 2012	<i>Lactobacillus plantarum</i> (NCIMB 41028) and <i>Lactobacillus plantarum</i> (NCIMB 30148)	2010-0280
18	839/2012 of 18 September 2012	urea	2010-0113
19	838/2012 of 18 September 2012	<i>Lactobacillus brevis</i> (DSMZ 21982)	2010-0278
20	843/2012 of 18 September 2012	endo-1,4-beta-xylanase produced by <i>Aspergillus niger</i> (CBS 109.713)	2010-0034
21	840/2012 of 18 September 2012	6-phytase (EC 3.1.3.26) produced by <i>Schizosaccharomyces pombe</i> (ATCC 5233)	2011-0015
22	842/2012 of 18 September 2012	lanthanum carbonate octahydrate	2011-0021
23	832/2012 of 17 September 2012	ammonium chloride	2010-0037
24	414/2012 of 15 May 2012	6-phytase	2005-0028
25	334/2012 of 19 April 2012	<i>Saccharomyces cerevisiae</i> CNCM I-4407	2010-0038
26	333/2012 of 19 April 2012	potassium diformate	2010-0188
27	269/2012 of 26 March 2012	dicopper chloride trihydroxide	2010-0046
28	237/2012 of 19 March 2012	alpha-galactosidase (EC 3.2.1.22) produced by <i>Saccharomyces cerevisiae</i> (CBS 615.94) and endo-1,4-beta-glucanase (EC 3.2.1.4) produced by <i>Aspergillus niger</i> (CBS 120604)	2009-0014
29	226/2012 of 15 March 2012	benzoic acid	2010-0029
30	227/2012 of 15 March 2012	<i>Lactococcus lactis</i> (NCIMB 30117)	2010-0033
31	140/2012 of 17 February 2012	monensin sodium	2009-0035
32	136/2012 of 16 February 2012	sodium bisulphate	2009-0049
33	131/2012 of 15 February 2012	preparation of caraway oil, lemon oil with certain dried herbs and spices	2009-0055
34	98/2012 of 7 February 2012	6-phytase (EC 3.1.3.26) produced by <i>Pichia pastoris</i> (DSM 23036)	2010-0008
35	93/2012 of 3 February 2012	<i>Lactobacillus plantarum</i> (DSM 8862 and DSM 8866)	2011-0001
36	91/2012 of 2 February 2012	<i>Bacillus subtilis</i> (CBS 117162)	2008-0056

EURL reports on: [http://irmm.jrc.ec.europa.eu/EURLs/EURL\\_feed\\_additives/authorisation/evaluation\\_reports/](http://irmm.jrc.ec.europa.eu/EURLs/EURL_feed_additives/authorisation/evaluation_reports/)

## **Executive summary of the Workshop 2012 of the EURL-FA Authorisation**

*(by Z. Ezerskis)*

The 12<sup>th</sup> workshop of EURL-FA Authorisation was held at the Veterinary Research Institute of the University of Ljubljana - Slovenian National Reference Laboratory (NRL) from 4<sup>th</sup> to 5<sup>th</sup> October 2012. A total of thirty-seven participants attended the workshop, representing 28 NRLs, EFSA and the EURL. C. von Holst (EURL-FA) and G. Tavcar-Kalcher (Slovenian NRL) welcomed the participants and gave the introduction speech.

The current administrative activities of the EURL-FA Authorisation were overviewed by P. Robouch focusing on various aspects, namely the preparation of the working instructions, the simplification of the 'Guide for the Applicants' and the on-going transfer of the documents to the Commission's electronic registration system (ARES). The state of the on-going re-evaluation exercise of feed additives was reported, stressing the substantial number of grouped/pooled applications (ca. 50%) and outsourced ca. 15% of the reports to NRLs.

During the workshop the participants from NRLs gave poster and oral presentations on the structure and activities of their organisations. Key technical topics dealing with silage additives - safety assessment and methods of analysis (M. Innocenti, EFSA); practical implications of permitted technical tolerances for feed additives in premixes and feedingstuffs (W. Korol, IZOO - Polish NRL and J. Schoenherr, SMUL - German NRL); quantitative analysis of iodine in feed and food by inductively coupled plasma mass spectrometry (ICP-MS) (M. Leitereret, TLL - German NRL); the multi-analyte determination of vitamins A, E and D (J. Petrova, UKZUZ - Czech NRL) and the registration and official control of probiotic microorganisms used as feed additives in Poland (M. Walczak, IZOO - Polish NRL) were also presented.

At the end of the workshop, the future priorities and activities of the EURL-FA Authorisation were presented by P. Robouch, focussing on the organisation of a specific inter-laboratory study in the field of phytase activity measurements during which the comparison of a product-specific method with an internationally standardized method would take place. Also the collaboration between the EURL-FA Authorisation & NRL network with the EURL-FA Control was mentioned as an issue for future improvement. The workshop was concluded by C. von Holst and G. Tavcar-Kalcher who awarded the certificates to the NRLs having significantly contributed in 2012 to the evaluation process by reviewing the reports of the EURL (CZ-UKZUZ, DK-PD, DE-LGL, DE-TLL, IT-CReAA and PL-PIWET).

## **Part 2: Activities of the EURL-FA Control**

## **Legal background** *(by U. Vincent)*

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 the control activities according to the Regulation (EC) No 882/2004. In the frame of the latter legislation, 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 the 11 authorized coccidiostats 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 year, the EURL-FA Control therefore organised the PT abovementioned as being the first one organised 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 1<sup>st</sup> workshop with the consortium of NRLs according to Regulation (EC) No 882/2004.

## **Executive summary of the Workshop 2012 of the EURL-FA Control**

*(by U. Vincent)*

The first workshop (WS) of the EURL-FA Control was organised and held at the IRMM on 13-14 November 2012. A total of thirty-nine participants, representing 20 National Reference Laboratories (NRLs), 7 National Official Control Laboratories (OCLs), DG SANCO, IMEP (JRC-IRMM) and the EURL-FA, attended the workshop.

The WS started with the presentation by F. Verstraete (DG SANCO) on unavoidable carry-over of coccidiostats in non-target feed regulated as undesirable substances in feed. After the review of the EU legal background in the field it was concluded that: (i) there is a need for official control of coccidiostats at carry-over levels in feed; (ii) the analysis of coccidiostats (at ca. 1 % and 3 % from the authorised level) in feed remain a challenge in terms of method sensitivity and measurement uncertainty; (iii) there is a need for comparability and reliability of control results across the EU in order to achieve legal certainty in an EU internal market. M.-A. Granero Rosell (DG SANCO) stressed in his presentation the dualistic nature of the duties and responsibilities of the EURL (Regulation 1831/2003 - for feed additives (FA) authorisation vs. Regulation 882/2004 - for control activities).

During the poster session thirteen NRLs and the EURL-FA Control presented fifteen posters, mainly on the development and/or validation of analytical methods for the determination of coccidiostats at authorised or cross-contamination levels. The EURL-FA Authorisation presented a poster on the ongoing call for the "inter-laboratory comparison to determine an accurate conversion factor of 6-phytase in Optiphos®".

C. von Holst discussed the challenges of the EURL-FA Control emphasising the need for several various control methods to cover the high number and the diversity of analytes (organics, antibacterial substances, elements, enzymes, probiotic microorganisms, etc.) and the different conditions in which the feed additives are used.

U. Vincent (EURL-FA Control) gave two presentations on the proficiency testing (PT) exercise organised by the EURL on 2012 for the analysis of coccidiostats at cross-contamination levels. Based on the results it was concluded that the exercise was a success. After the presentation the detailed technical issues related to the analysis of coccidiostats at cross-contamination levels in feed were discussed (see next section). U. Vincent concluded the workshop with a follow-up of the first PT for the determination of coccidiostats in feedingstuffs and presenting the Work Programme 2013 of EURL-FA Control.



## **Proficiency test (PT) exercise 2012 - Coccidiostats at cross-contamination levels in feedingstuffs** (by U. Vincent)

The proficiency testing (PT) exercise for analysis of coccidiostats at cross-contamination levels was organized in 2012 by the EURL-FA Control in which thirty European laboratories (13 NRLs belonging to the EURL-FA Authorisation network, 9 NRLs from EURL-FA Control network and 8 Official Control Laboratories) participated. The sample set was prepared by the EURL-FA Control and the homogeneity and stability tests of the samples were also performed by the EURL-FA Control before the exercise. The set consisted of three different materials, containing (1) narasin and diclazuril; (2) monensin, salinomycin and lasalocid; and (3) blank feed (free from coccidiostats). The laboratories applied their own analytical methodology for the analysis of the test samples. Most of the participants applied multi-analyte methods, using liquid-solid extraction for sample pre-treatment, liquid chromatography with mass spectrometry detection and matrix-matched calibration for the quantification.

From the 30 participating laboratories, 29 reported results for Lasalocid, 24 for Diclazuril and 30 for Monensin, Narasin and Salinomycin. Individual laboratory performance was expressed in terms of z- and  $\zeta$ - scores in accordance with ISO 13528. The definition for these terms and the criteria for the z-scores were presented. The distribution of the z- and  $\zeta$ - scores values showed acceptable results with satisfactory scores ranging from 57% to 73% for the z-scores and from 55% to 80% for the  $\zeta$ - scores with low percentage of unsatisfactory scores. Additionally, the statistical comparison of the robust mean with the assigned value for each parameter measured showed that the PT exercise was globally satisfactory. The false positive and negative rates were presented for each target coccidiostat. The high percentage of false negatives for Diclazuril is assumed to be caused by the target concentration being near the Limit of Quantification (LOQ) of some analytical methods.

After the exercise the experimental challenges and pitfalls, the reasons of underperformance of certain laboratories in the exercise and preventive, corrective and improvement actions for analysis of coccidiostats at cross-contamination levels in feed were discussed. The main issues identified were the sample pre-treatment (i.e. dilution of the samples to decrease or overcome the matrix effects); type of calibration (i.e. matrix-match calibration with deuterated internal standards, when available); and High Performance Liquid Chromatography coupled to tandem mass spectrometry (HPLC-MS/MS) conditions (i.e. gradient conditions for HPLC and the usage of formic acid and ammonium or sodium sources for the adduct formation in MS was emphasized).

## **European Standard EN 16158:2012.**

### ***Animal feeding stuffs - Determination of semduramicin content - Liquid chromatographic method using a "tree" analytical approach***

*(by M. J. González de la Huebra)*

The European Commission requested the European Committee for Standardisation (CEN) to provide standardised methods for the analysis of animal feedingstuffs in the framework of the Regulation (EC 882/2004) on feed and food controls to be performed by national authorities throughout the food chain. Upon the request of the CEN/TC 327-WG 3<sup>1</sup>, the JRC-IRMM acted as project leader for the working item Semduramicin (SEM).

SEM presents a broad spectrum of anti-coccidial activity against *Eimeria spp.* at dietary inclusion levels within the authorised concentration range (20-25 mg/kg). The conditions of use of the feed additive, including the authorised concentration range, are specified in the Commission Regulation (EC) No 1443/2006.

Two in-house developed analytical methods were validated through a collaborative study. The aim was to determine the performance characteristics of (1) a high performance liquid chromatography method with single quadrupole mass spectrometry (HPLC-MS) and of (2) a high performance liquid chromatography method using post-column derivatisation and spectrophotometric detection (HPLC-PCD-UV) for the determination of SEM in compound poultry feed. The methods are to be used in the official laboratories of the Member States to enforce target levels of SEM in feedingstuffs as authorised for specific feed additive.

The collaborative study was carried out for both analytical methods on six different samples consisting of two materials (starters and finishers of poultry diets) containing SEM at three different concentration levels (ranging from half of the maximum authorised concentration to twice the maximum authorised concentration). The preparation of the materials was sub-contracted to ensure their preparation under realistic manufacturing conditions.

The obtained values of precision and trueness together with the obtained HORRAT values demonstrate the fitness of both analytical methods for the intended purpose. Thus, the methods are considered fully validated and can be applied for official control by the national authorities.

---

<sup>1</sup> CEN/TC 327-WG 3: European Committee for Standardisation/ Technical Committee 327: Animal feeding stuffs-Methods of Sampling and Analysis- Working group 3: Feed additives and drugs

The successful outcome of the collaborative studies allowed the compilation of both methods in a modular analytical strategy ("tree" analytical approach) composed of a common sample preparation procedure followed by a dual possibility of analysis, which allows the official control laboratories to choose the one that better adapts to their facilities. CEN has adopted the abovementioned analytical method and published it as a European standard in February 2012 (EN 16158).

### **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, their participation in the PT exercise and their contribution to 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 colleagues that left the EURL team: Carlos Pinto, Dijana Mitić, Anna Gorcsi and Maritta Drooghmans. Their valuable contribution was essential to the successful activity of the EURL.

## The EURL-FA (Authorisation & Control) Network List

(updated by Z. Ezerskis on 23/10/2013)

Country	National Reference Laboratory
	<ul style="list-style-type: none"> <li>- Federaal Laboratorium voor de Veiligheid van de Voedselketen (FLVVT), Federal Agentschap voor de veiligheid van de voedselketen (FAVV), Tervuren. 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), Národní referenční laboratoř, Brno. CZ</li> </ul>
	<ul style="list-style-type: none"> <li>- Fødevarestyrelsen, Ringsted. DK</li> </ul>
	<ul style="list-style-type: none"> <li>- Bayerisches Landesamt für Gesundheit und Lebensmittelsicherheit (LGL)/ Landesinstitut: Spezialeinheit Tiergesundheit; Futtermittel (TF)/Sachgebiet TF4 (Futtermittel), Oberschleißheim. DE</li> <li>- Landwirtschaftliches Untersuchungs- und Forschungsanstalt (LUFA), Speyer. DE</li> <li>- Staatliche Betriebsgesellschaft für Umwelt und Landwirtschaft (BfUL), Geschäftsbereich 6 – Labore Landwirtschaft, Nossen. DE</li> <li>- Thüringer Landesanstalt für Landwirtschaft (TLL). Abteilung Untersuchungswesen, Jena. DE</li> <li>- Bundesinstitut für Risikobewertung (BfR), Berlin. DE</li> </ul>
	<ul style="list-style-type: none"> <li>- Põllumajandusuuringute Keskus (PMK). Jäädikide ja saasteainete laboratoorium, Saku, Harjumaa. EE</li> <li>- Põllumajandusuuringute Keskus (PMK), Taimse materjali laboratoorium, Saku, Harjumaa. EE</li> <li>- Veterinaar- ja Toidulaboratoorium (VTL), Tartu. EE</li> </ul>
	<ul style="list-style-type: none"> <li>- Laboratorio Arbitral Agroalimentario (LAA), Ministerio de Agricultura, Alimentación y Medio Ambiente, Madrid. ES</li> <li>- Laboratori Agroalimentari, Qualitat i Indústries Agroalimentàries; Direcció General d'Alimentació; 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, 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>- Istituto Superiore di Sanità (ISS), Dipartimento di Sanità Pubblica Veterinaria e Sicurezza Alimentare (SPVSA), Roma. IT</li> <li>- 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.</li> </ul>
	<ul style="list-style-type: none"> <li>- Analytical Laboratories Section - Feeding Stuffs Quality Control Laboratory, Department of Agriculture, Ministry of Agriculture, Natural Resources and Environment, Nicosia. CY</li> </ul>
	<ul style="list-style-type: none"> <li>- Pārtikas drošības, dzīvnieku veselības un vides zinātniskais institūts (BIOR), Rīga. LV</li> </ul>

Country	National Reference Laboratory
	- Nacionalinis maisto ir veterinarijos rizikos vertinimo institutas (NMVRVI), Vilnius. LT
	- 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
	- ALcontrol laboratories, LabNett AS, Stjørdal. NO - Nasjonalt institutt for ernærings- og sjømatforskning (NIFES), Bergen. 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. SL
	- Skúšobné laboratórium - Oddelenie analýzy krmív, Ústredný kontrolný a skúšobný ústav poľnohospodársky (ÚKSÚP), Bratislava. SK
	- Elintarviketurvallisuusvirasto/Livsmedelssäkerhetsverket (Evira), Tutkimus- ja laboratorio-osasto/Forsknings- och laboratorieavdelningen, 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 2012  
*(listed in anti-chronological order)*

Full reports available on the EURL-FA website

[http://irmm.jrc.ec.europa.eu/EURLs/EURL\\_feed\\_additives/authorisation/evaluation\\_reports/](http://irmm.jrc.ec.europa.eu/EURLs/EURL_feed_additives/authorisation/evaluation_reports/)

FAD No	Product Name	Active Substance(s)	Published on	NRL
2012-0351	Brilliant blue FCF	Brilliant blue FCF	12/12/2012	
2012-0349	Ponceau 4R	Ponceau 4R	12/12/2012	
2012-0016	L-Methionine	L-Methionine	07/12/2012	
2012-0017	Coxiril	Diclazuril	07/11/2012	
2012-0018	Lactobacillus kefir	Lactobacillus kefir BIO 94 IFA 94 - DSM 19455	30/10/2012	
2012-0001 2010-0150	Oralin	Enterococcus faecium DSM 10663/NCIMB 10415	12/10/2012	
2010-0185 2010-0214	SANCO group Vitamin C	L-ascorbic acid; Sodium L-ascorbate; Calcium L-ascorbate; 6-Palmitoyl-L-ascorbic acid; Ascorbyl monophosphate calcium sodium; Ascorbyl monophosphate sodium	12/10/2012	
2010-0372	Lutein	Lutein	11/10/2012	
2010-0305	Provita LE	Enterococcus faecium DSM 7134; Lactobacillus rhamnosus DSM 7133	02/10/2012	
2010-0069 2010-0088 2010-0235	SANCO group Manganese	Manganese chelate of amino acids hydrate; Manganese chelate of glycine hydrate; Manganous oxide; Manganous carbonate; Manganous chloride tetrahydrate; Manganous sulfate monohydrate	06/09/2012	
2010-0068 2010-0095 2010-0236 2010-0295 2010-0296 2010-0380	SANCO group Iron	Ferrous chelate of glycine hydrate; Ferrous/iron chelate of amino acids hydrate; Ferrous fumarate; Ferric oxide; Ferric chloride hexahydrate; Ferrous sulfate monohydrate; Ferrous sulfate heptahydrate; Ferrous carbonate	06/09/2012	
2011-0050	Lancer	Lanthanide citrates (Lanthanum & Cerium)	06/09/2012	CRAA-IT
2010-0175 2010-0211	Kemzyme Plus Dry & Liquid	endo-1,3(4)-beta-glucanase (EC 3.2.1.6); endo-1,4-beta-glucanase (EC 3.2.1.4); alpha-amylase (EC 3.2.1.1); endo-1,4-beta-xylanase (EC 3.2.1.8); and bacillolysin (EC 3.4.24.28)	06/09/2012	
2011-0049	Hemicell	Endo-1,4-β-mannanase (E.C. 3.2.1.78)	17/08/2012	IZOO-PL
2010-0377	Hexamethylene tetramine	Hexamethylene tetramine	13/08/2012	GENCAT-ES
2011-0006	Sodium hydroxide	Sodium hydroxide	13/08/2012	PIWET-PL
2010-0283	Clinoptilolite	Clinoptilolite	13/08/2012	
2010-0134	Fumaric acid	Fumaric acid	09/08/2012	

[http://irmm.jrc.ec.europa.eu/EURLs/EURL\\_feed\\_additives/authorisation/evaluation\\_reports/Pages/index.aspx](http://irmm.jrc.ec.europa.eu/EURLs/EURL_feed_additives/authorisation/evaluation_reports/Pages/index.aspx)

FAD No	Product Name	Active Substance(s)	Published on	NRL
2010-0153 2010-0247	SANCO group ethyl-, methyl-hydroxybenzoates	Sodium ethyl 4-hydroxybenzoate (E215), Methyl 4-hydroxybenzoate (E218)	13/07/2012	
2010-0363	Fecinor/Fecinor plus	Enterococcus Faecium CECT 4515 (E1713)	13/07/2012	
2010-0269 2010-0294	Cyclactin LBC&Cervinet LBC	Enterococcus Faecium NCIMB 10415 (E1705)	13/07/2012	
2011-0044	Seleno hydroxy analogue of methionine	Hydroxy methyl seleno butanoic acid (HMSeBA)	13/07/2012	
2010-0058 2010-0081 (Amendment)	SANCO group L-Threonine	L-Threonine	05/07/2012	
2010-0155 2010-0339	Sodium metabisulphite	Sodium metabisulphite	03/07/2012	
2010-0396	Clove oil	Clove oil	25/06/2012	
2011-0033	Econase GT	Endo-1,3(4)- $\beta$ -glucanase	05/06/2012	
2010-0373	Capsanthin	Capsanthin	05/06/2012	
2010-0375	Sodium benzoate	Sodium benzoate	30/05/2012	
2009-0056 2010-0160 2010-0186 2010-0310	SANCO group Cassia gum	Cassia Gum	23/05/2012	
2011-0028	L-Selenomethionine	Selenomethionine	23/05/2012	
2010-0105 2010-0271	SANCO group Tocopherol	Alpha, beta, gamma, delta tocopherol, all-rac alpha tocopherol (dl-alpha-tocopherol)	21/05/2012	UKZUZ-CZ
2010-0244	Bentonite - Montmorillonite	Bentonite - Montmorillonite	16/05/2012	
2010-0400	ScanSmoke SEF7525		08/05/2012	
2011-0036	Biostrong	Thymol	25/04/2012	
2010-0237 2010-0300	SANCO group BHT	Butylated hydroxytoluene	20/04/2012	

[http://irmm.jrc.ec.europa.eu/EURLs/EURL\\_feed\\_additives/authorisation/evaluation\\_reports/Pages/index.aspx](http://irmm.jrc.ec.europa.eu/EURLs/EURL_feed_additives/authorisation/evaluation_reports/Pages/index.aspx)



FAD No	Product Name	Active Substance(s)	Published on	NRL
2010-0135 2010-0302 2010-0387 2010-0388 2010-0389 2010-0395	SANCO group 15 microorganisms	Enterrococcus faecium NCIMB 10415; Enterrococcus faecium BIO 34; Enterrococcus faecium M74 NCIMB 11181 or M74 CCM 6226; Enterrococcus faecium SF202-DSM 4788-ATCC 53519; Enterrococcus faecium SF301-DSM 4789-ATCC 55593; Lactobacillus buchmneri NCIMB 30139; Lactobacillus plantarum DSM 3676; Lactobacillus plantarum DSM 3677; Lactobacillus plantarum DSM 13573; Lactobacillus plantarum LSI NCIMB 30083; Lactobacillus plantarum L-256 NCIMB 30084; Pediococcus pentosaceus DSM 14021; Pediococcus acidilactici 33-06 NCIMB 30086; Pediococcus acidilactici 33-11 NCIMB 30085; Enterrococcus faecium CNCM I-3236/ATCC 19434	20/04/2012	
2010-0148 2010-0223 2010-0231 2010-0370	SANCO group Calcium iodine	Potassium iodide; Calcium iodate, anhydrous	13/04/2012	
2011-0042	Ronozyme HiPhos (GT)	6-phytase (E.C. 3.1.3.26)	03/04/2012	
2011-0024	Powder Cellulose	Powder Cellulose	26/03/2012	
2011-0030	Danisco Xylanase 40000 G/L	Endo-1,4- $\beta$ -xylanase (E.C. 3.2.1.8)	26/03/2012	
2010-0215	Taurine	Taurine	08/03/2012	
2010-0255	Propionibacteri acidipropionici	Propionibacterium acidipropionici CNCM MA 26/4U	05/03/2012	
2010-0023	Methionine Group	DL-Methionine; DL-Methionine sodium salt; DL-Methionine protected with ethylcellulose; DL-Methionine protected with copolymer vinylpyridine/styrene; Hydroxy analogue of Methionine; Calcium salt of hydroxy analogue of Methionine; Isopropyl ester of the hydroxylated analogue of Methionine	01/03/2012	
2010-0394	Lactobacillus acidophilus	Lactobacillus acidophilus D2/CSL	29/02/2012	
2010-0337 2010-0371 2010-0402	SANCO group Cobalt	Cobaltous acetate tetrahydrate; Cobaltous carbonate; basic Cobaltous carbonate monohydrate; Cobaltous sulphate heptahydrate	24/02/2012	
2010-0133	Lactic acid and Calcium Lactate	Lactic acid and Calcium Lactate	21/02/2012	
2011-0022	Shellac	Shellac	21/02/2012	
2008-0004	FeedLyve AXC	Endo-1,4- $\beta$ -xylanase (E.C. 3.2.1.8)	16/02/2012	

[http://irmm.jrc.ec.europa.eu/EURLs/EURL\\_feed\\_additives/authorisation/evaluation\\_reports/Pages/index.aspx](http://irmm.jrc.ec.europa.eu/EURLs/EURL_feed_additives/authorisation/evaluation_reports/Pages/index.aspx)

FAD No	Product Name	Active Substance(s)	Published on	NRL
2010-0343	Brilliant Black	Brilliant Black	09/02/2012	
2010-0344	Patent Blue	Patent Blue	09/02/2012	
2010-0345	Quinoline Yellow	Quinoline Yellow	09/02/2012	
2010-0196	Inositol	Inositol	07/02/2012	
2010-0031 2010-0070 2010-0331	SANCO group Copper	Cupric acetate, monohydrate; basic Cupric carbonate, monohydrate; Cupric chloride, dihydrate; Cupric oxide; Cupric sulphate, pentahydrate; Cupric chelate of amino-acids hydrate; Cupric chelate of glycine hydrate (solid & liquid)	31/01/2012	
2010-0146 2010-0156 2010-0165	SANCO group Vitamin D3	Cholecalciferol	31/01/2012	UKZUZ-CZ
2011-0021	Lantharenol	Lanthanum carbonate octahydrate	30/01/2012	CRéAA-IT
2011-0015	Phyzyme	6-phytase (EC 3.1.3.26)	30/01/2012	DK-PD
2010-0136	Ployoxyethylene (20)-sorbitan monooleate	Polyoxyethylene (20)-sorbitan monooleate	23/01/2012	
2010-0132	BHA	Butylated Hydroxy Anisole	13/01/2012	
2010-0374	Safizym	Endo-1,4- $\beta$ -xylanase (E.C. 3.2.1.8)	13/01/2012	

[http://irmm.jrc.ec.europa.eu/EURLs/EURL\\_feed\\_additives/authorisation/evaluation\\_reports/Pages/index.aspx](http://irmm.jrc.ec.europa.eu/EURLs/EURL_feed_additives/authorisation/evaluation_reports/Pages/index.aspx)

**European Commission**

JRC85627 – Joint Research Centre – Institute for Reference Materials and Measurements

**Title:** Activity report 2012 of the European Reference Laboratory for Feed Additives – Authorisation & Control

**Author(s):**

C. von Holst, S. Bellorini, M. Chedin, M. De Smet, M. Drooghmans, M. J. Gonzalez de la Huebra, A. Gorcsi, G. Kaklamanos, J. Keltti, D. Mitić, C. M. Pinto, P. Robouch, F. Serano, U. Vincent and Z. Ezerskis (Editor)

**2013 – 24 pp. – 21.0 x 29.7 cm**

**Abstract**

The activities of the EURL Feed Additives – Authorisation & Control are presented for 2012. The achievements: the registration of 329 reference samples of the feed additives; publication of 59 evaluations reports related to authorisation of feed additives; one proficiency test organised by EURL-FA Control; 2 workshops organised by EURL-FA (Authorisation and Control); method for the determination of Semduramicin in feedingstuffs developed by EURL-FA Control was adopted as European Standard (EN 16158).

**As the Commission's in-house science service, the Joint Research Centre's mission is to provide EU policies with independent, evidence-based scientific and technical support throughout the whole policy cycle.**

**Working in close cooperation with policy Directorates-General, the JRC addresses key societal challenges while stimulating innovation through developing new standards, methods and tools, and sharing and transferring its know-how to the Member States and international community.**

**Key policy areas include: environment and climate change; energy and transport; agriculture and food security; health and consumer protection; information society and digital agenda; safety and security including nuclear; all supported through a cross-cutting and multi-disciplinary approach.**