

**MINUTES FROM THE MEETINGS OF  
AAFCO'S LABORATORY METHODS AND SERVICES COMMITTEE  
January 19, 2012 8AM-5PM  
at  
the Grand Sierra, Reno, NV**

Present were:

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Nancy Thiex opened the meeting. After introductions the following issues were covered:

Approval of Agenda – The agenda was approved. (Exhibit 1).

Approval of Minutes from the September Meeting – The Minutes from the meeting held on July 30, 2011, 2011 in Austin, TX were approved as modified (Exhibit 2)

MGA Clean-up – It is possible to make monoclonal antibodies against MGA. Question as to the demand/ number of tests kits potentially purchased. May also need funding from industry for the initial development. Focus would be making mini-columns focused on clean-up/concentration of extracts potentially enabling final potency assessment by straight HPLC.

Tylosin Working Group – Melissa Miller – The current official assay for tylosin in feed is based microbiology/autoturb. In continuation of the meeting in Austin the focus had been to “upgrade” to a LC or LC-MS/MS method. Methods developed by Covance and Pace were tried but due to significant problems could not be recommended for feed analyses. Currently the group is looking at developing a method from scratch. (Exhibit 3)

Neomycin – Alex MacDonald – Neomycin is only used in combinations with other drugs. It is a multi-component drug and any chromatographic method must be able to quantitate the two major components B & C. down to a concentration of 1g/ton. The method suggested by Metrohm looks good and Alex’s lab will run this method as well as the official micro method for the next year. Since there is an excellent HPLC method for oxytetracycline Alex does not see the need to expand the method to include tetracycline antibiotics. (Exhibit 4)

Antibiotics in DDGs – Marla Luther – Marla reported that she was working on a guidance document addressing the use of antibiotics in ethanol production. FDA method LIB4438 is used for testing DDGs. Currently there are no approved antibiotics for processes where byproducts are used as animal feed. Marla is also working on a method for determining mycotoxin levels in DDGs. Contact

Marla with any concerns regarding possible contaminants in DDGs intended for use as a feed/food ingredient.

Salmonella in Feeds – John McCurdy – FDA policy guide is being reviewed

Phosphorus in Feed – Bill Hall – Commonly used methods (spectrophotometric/gravimetric) are not suitable for determining total phosphorus in feed. There is also no AOAC method for Ca-phosphate in feed. Question was raised whether control labs would use the “fertilizer”, method for feed analyses should the scope of the AOAC methods be updated to reflect their limitations or adding a reference recommending the use for the “fertilizer” method Andy Crawford and Vicki Siegel to check if we can prove equivalency of the methods based on data from the AAFCO Check Sample Program

Animal Feed Regulatory Standards – Jenny Murphy & Anita McMullen – Initially a vision document was put together. Project is still in the developmental phase. “Manufactured Foods Standards” will serve as basis for discussions and for generating minimum standards for the Feed Industry. Currently 11 standards are in the final stages of editing and proofreading. State Program Director to assess competency of lab service providers. It is recommended to carefully review and comment on the standards when they have been published in the Federal register.

It was stressed that this would not represent a regulation but that industry hopefully would implement these on a voluntary basis. First step is a self-assessment and a GAP analysis. Pilot program will be initiated after standards have been approved \$7M funding has been made available to support 35 state programs (exhibit 5)

Acid Hydrolysis Fat in canned cat food – Vicki Siegel – The question was raised whether to use acid hydrolysis as part of the crude fat determination method for canned pet foods and animal feeds. It was suggested that AAFCO put together recommended methods for different pet food matrices. A working group was formed headed by Vickie Siegel with Karen Stephani, Teresa Grant, Ken Riter, Lars Reimann, Nancy Thiex and Lawrence Novotny.

Dietary Starch Collab and Fructans – Thiex reported that the protocol for the starch collab was submitted to AOAC May 2011, that Method Centric Committee Members had been assigned but no official appointment letters issued, that AOAC essentially had done nothing since June 2011 and that samples were ready to ship. It was agreed to initiate study with or without AOAC involvement. Nothing new on fructans.

Fatty Acid Collaborative Studies – Christine Atkinson reported that AOCS would be publishing the methods in the very near future. (Exhibit 6)

Vitamin A Working Group (Regina Wixon) – No report

Vitamin E Working Group (Mark Collingson) – Mark Collingson reported that the working group had decided to await the outcome of SPIFAN and SPSFAN expert review panels. Covance method likely one of the approved methods. (Exhibit 7)

Sugars (mono- and di-saccharides) Working Group (Jeff Horst) – Data available but not very consistent Andy Crawford to analyze data. Anyone interested in getting samples of the solutions analyzed as part of the study can contact Jeff.

Mycotoxin Working Group (Vicki Siegel) – Siegel reported that the group consisted of 23 members and were currently evaluating two multi residue methods. Waiting for additional suggested methods from at least 1 lab. Currently looking at using R-Biopharm clean-up columns. Next step is to develop data sets and method performance comparisons. (Exhibit 8)

Thiamine in Canned Cat Foods – This analyte is partly decomposed during the canning process and is therefore often added in excess during the manufacturing process. The issue regarding assay interference by other ingredients does not seem to be an issue of interest to the industry as judged by trade association support.

Partnership for Food Protection Laboratory Task Force (Hitelia Castellanos & Tim McGrath) – Presented outline of program. Methods posted on e-lexnet (see Hitelia for access)

LC-MS/MS methods for ionophore and antibiotic residues in feeds and feed ingredients (Aaron Price) – Working on Tylosin, Lincomycin, Erythromycin and Virginiamycin residues in DDG and feeds. Basically extract, dilute and shoot. Only targeting Tylosin A and Virginiamycin M. (Exhibit 10)

Methods Need Statements (Aaron Price) – Price reported that needs statements and needs statement template were posted on the AAFCO web site.

Multi-residue Pesticide Screen (Robert Sheridan & Karen Stephani) – Method needs statement being developed. Karen to forward draft to a working group consisting of Aaron Price, Mark Collingson and Lars Reimann. (Exhibit 11)

Methods Survey (Aaron Price) – Aaron reported that the number of responses to earlier surveys had been low. He would try to streamline the surveys in the hope of getting more people to respond. Currently there are several completed Method Needs Statements waiting for someone to take up the challenge.

Relationship with ISO–US is an observer on the ISO Feed and the ISO Fertilizer Committees both chaired by Iran. It was suggested that both AAFCO and AOAC seek liaison status (See everything but no vote). For additional information contact AOCS

Upcoming Symposia – currently two sessions are scheduled at the upcoming AOAC meeting in Las Vegas.

Database for Reference Materials (Lars Reimann) – Reimann reported that AOAC's Technical Division for Reference Materials (TDRM) had put together a database for reference materials.

Respectfully submitted,

**Lars Reimann**

***Eurofins Scientific, Inc.***

Exhibit 1 – Agenda

Exhibit 2 – Minutes from September 2011 meeting

Exhibit 3 – Tylosin working group

Exhibit 4 – Method for neomycin in feeds

- Exhibit 5 – Animal Feed Regulatory Program Standards
- Exhibit 6 - AOCS FAtty Acid Profile Update
- Exhibit 7 – Vitamin E Working Group
- Exhibit 8 - Mycotoxin presentation NY
- Exhibit 10 - Aaron Price Drug residues
- Exhibit 11 - MNS-Pesticides in Feeds - Rev 2 DRAFT
- Exhibit 12 (A + B) – documents outlining AAFCOs method prioritization and validation processes