

**MINUTES FROM THE MEETINGS OF  
AAFCO'S LABORATORY METHODS AND SERVICES COMMITTEE**

**August 5, 2012; 8:00AM- 05:00PM**

**at**

**the Marriott Hotel, Indianapolis, IN**

Present were:

<b>NAME</b>	<b>E-MAIL ADDRESS</b>	<b>ORGANIZATION</b>
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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 January Meeting – The Minutes from the meeting held on January 19, 2012 in Reno, NV, were approved (Exhibit 2).

Annual Report – Thiex reported that the Annual Report had been submitted to AAFCO as well as to the Lab Committee.

Announcements – Thiex reported that Lu Wetzler had changed job and would no longer be involved with AAFCO related matters. She is also in the process of updating the Committee Roster and the listing of Industry Appointments. Persons interested in being associated with the Committee should contact Dr. Thiex or Aaron Price.

FASS managing AAFCO activities – Thiex reported that FASS was now managing AAFCO activities. One of the potential benefits to the Lab Committee could be real time IT support – enabling activities such as updated websites and webinars.

MGA – Coleman reported that Simon Bevis had approached Elanco for financial support for developing column cleanup/screening for MGA based on mono-clonal antibodies. Elanco turned down the request since they had a good LC-MS/MS based assay. Survey among states indicated that 24 states would be interested in the product but the amount of test kits likely needed was too low to support this business venture.

Tylosin Working Group – Coleman (Chair) reported that the focus of the group was on transition methodology from the current microbiological method to a HPLC based method. Many methods reported in literature had been tried but with poor outcomes. Also tried to start from scratch with poor results. TX uses a LC-MS/MS based method, but is currently not interested in taking this method through a general validation program. Also discouraging this approach is FDA's negative position regarding HPLC-MS/MS based methods for compliance testing of fortified feeds.

Premix Particle Size Analysis as a Predictor of Feed Assay Variability – Adam Fahrenholz presented on premix particle size affecting lab assay reproducibility. Fahrenholz recommended that people interested in more detailed information read the ANSI S319x standard covering this topic.

Starch Method – Thiex paraphrased a report from Mary Beth Hall stating that AOAC was moving the starch method forward, and that Dr. Hall was in the process of responding to comments concerning the protocol. Collaborating labs and samples are lined up. People interested in participating in the collab should contact Dr. Hall ASAP.

Fatty Acid Collaborative Study – Atkinson summarized the status. Two methods have been collaboratively studied. The collab study made it clear that only the method involving acid hydrolysis seemed to work on baked and extruded products.

Vitamin A Working Group – Riter (Chair) reported the group was reviewing 3 methods and that the method considered by SPIFAN was not one of the methods due to lack of a proponent for the method. Siegel would try the method and become its proponent if it proved to perform well. It was suggested to use processed cheese slices as a comparison sample (the retinol content in this matrix is uniformly distributed and relatively stable).

Vitamin E Working Group – Collison (Chair) reported that the group was waiting to see which methods the SPIFAN ERP would recommend. Currently 3 methods under consideration. SPSFAM will also be considering 4 methods during the upcoming AOAC meeting.

Sugar methodologies - Horst and Crawford summarized the data collected to date. It was agreed that the first priority would be to work on obtaining equivalency among labs when analyzing extracts. It was agreed to repeat the study using a sugar stock solution as well as 3 spiked extracts (spiked at either high, medium and low levels). In addition, labs would be instructed to repeat their sample analyses in order to achieve within lab repeatability data.

Comparability of Phosphorus Methods - Bill Hall reported the feed industry had problems when calcium phosphate was analyzed by the "AOAC Feed method" (dry ashing, dissolution of the ash with dilute HCl) versus the "fertilizer method" (digestion w/ aqua regia). The AAFCO Check Sample Program will distribute a sample of calcium phosphate as part of the August sample set with data due in mid-September.

AAFCO Guidelines for Analytical Methods - Thiex summarized Lawrence Novotny's report. He will compile a listing of recommended analyte/ matrix/methods combinations focusing on moisture, fat, protein, Ca and P and present the listing for comments at the AAFCO Mid-Year Meeting in January. He will also survey regulators via Aglabs about other analytes where proper method selection may be a challenge.

Animal Feed Regulatory Standard - MacMullan reported that the standard was written (100+ pages) and included a sampling standard. The standard has been reviewed and currently responses to comments are being prepared. It is still not a public document. MacMullan mentioned that funds were available to Associations wishing to provide support to regulatory feed labs working on implementing the standard.

LC-MS/MS Method for Antibiotic Residues in Feeds - Price presented the current status of CFIA's work toward validating a method for residue levels of tylosin, virginiamycin, lincomycin and erythromycin in feeds and feed ingredients. Will continue validation activities as well as start on a method for quantifying aminoglycoside residues.

FDA Grant Update - Thiex reported that AAFCO together with AADO and APHL sent a proposal to FDA for building the infrastructure to facilitate ISO Accreditation of AAFCO labs which would involve the Check Sample and the Lab Committee. Included would be a revision of the AAFCO QA/QC Guidelines to facilitate its use as a standard for Feed Regulatory labs. It would include a sample preparation standard.

Analytical Variability - AV's are used by the States to determine label compliance and was in the past estimated from the interlaboratory variability observed in the AAFCO Check Sample Program. Assay Limits (PAVs) are determined by FDA based on method trial performance on a homogeneous feed sample fortified with reference standard ( $2 \cdot CV + 5\%$ ). Currently there are conflicting AV and PAV values. Need to form working group to recommend AVs for analytes with no current AV. It was recommended to seek FDA participation in the working group to facilitate the unification of AV's and PAV's.

Mycotoxin Working Group - Siegel (Chair) reported that the group is reviewing 3 multi-analyte methods (Romer, NY Dept of Ag, CFIA). FDA may also have a method. Collaborative study is a challenge if incurred residues are required (finding and preparing samples EXPENSIVE). Food Methods Strategic Partnership (sp?) AOCS and AACC are venues besides AOACI for getting methods "Official Status". Sheridan and Price each reviewed the current status of their method.

Method Needs Statements/SLVs - Price (Chair) reviewed the status of the different projects:

- Amprolium - CFIA staffer is taking the lead
- Bacitracin - need proponent
- Carbadox & Pyrantel Tartrate - most of the work completed by Jane Sabbatini. Needs ruggedness study - Siegel to undertake the study

- CTC – Tami Stolzenback left. Need proponent
- Fatty Acids – AOAC to provide performance details related to feed. Siegel to add codes for individual fatty acid to AAFCO Check Sample Program test list.
- Fructans – awaiting resolution of simple sugar analysis issues.
- MGA - Hoffman w/Pfizer heading up this activity
- Multi-elements (minerals) - Terrence Fields, CFIA the lead.
- Neomycin – Alex MacDonald is the lead
- Multi residue pesticides – NY Dept of AG the lead (Bob Sheridan, Karen Stephani). Price to provide listing of residues of concern to CFIA.
- Starch – Mary Beth Hall the lead
- Sugars – Sugar working group (Horst Chair)
- Tylosin – Coleman w/ Elanco the lead.
- Vit A – Working Group (Riter Chair)
- Vit D – Working Group (Riter Chair)
- Vit E – Working Group (Collison Chair)
- Virginiamycin – needs sponsor

Method Needs Survey – Price reported on the findings of the survey he had completed. Health and safety concerns was first priority among the reasons for assessing method needs and “expanded mycotoxin screen” was the priority among methods.

Relationship with ISO – Bill Hall shared his observations working with ISO where he is the Chair for the section working with fertilizer methods (ISO TC143). Participation is an arduous but worthwhile experience. US participation is very limited in the feed and food area (AOCS main participant). ISO does not publish collab method performance data.

Relationship with AOACI – AAFCO is part of two technical sessions at the AOAC meeting in Las Vegas, “Comparison of Mycotoxin ELISA Kits” and “Contaminants in Feeds”. AOACI removed the Ag Community from its Technical Programming Council and the Ag Community need to find a new co-chair following LuAnn’s resignation. It was suggested that if the Ag Community were to maintain its place in the AOAC program, members who are Organizational Affiliates or Sustaining Members should contact AOAC to ask that AOAC continue to provide a forum for the Ag Community.

Respectfully submitted,

**Lars Reimann**

***Eurofins Scientific, Inc.***

Exhibits:

1. Agenda
2. Lab Minutes 01\_12
3. Sugar Extraction Study
4. Premix Particle Size analysis
5. AAFCO 2012 method prioritization results
6. CFIA Multi Mycotox method 2012jul25
7. CFIA Multi Drug method
8. NY Multi Mycotox Method 07 23 2012