

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

August 3, 2007 8:00-3:00

at

Amway Hotel, Grand Rapids, MI

Present were:

NAME	E-MAIL ADDRESS	ORGANIZATION
Aaron Price	pricea@inspection.gc.ca	CFIA
Ali Kashani	akashani@agr.wa.gov	WA Dept of Ag
Amy DeBaker	Amy.debaker@wi.gov	WI Dept of Ag
Andy Crawford	nutroandy@aol.com	Nutro Products
Bill Hall	Bill.Hall@mosaicco.com	Mosaic
Bob Jeppsen	rjeppsen@albion-an.com	Albion Advanced Nutrition
Brenda Snodgrass	Brenda.Snodgrass@oda.state.ok.us	OK Dept of Ag
Dale Hill	Dale.Hill@admworld.com	ADM
David Fairfield	dfairfield@ngfa.org	NGFA
Eric Sespico	sepico@doacs.state.fl.us	FL Dept of Ag.
John D. McCurdy	john.mccurdy@fda.hhs.gov	FDA/CVM
Keith Wegner	keith.wegner@ag.state.co.us	CO Dept of Ag.
Ken Riter	ken.riter@purina.nestle.com	NP Analytical Labs
Kenneth McManus	McManuK@mda.state.md.us	MD Dept of Ag.
Kyung-Min Lee	kml@otsc.tamu.edu	Office of Texas State Chemist
Lars Reimann	larsReimann@EurofinsUS.com	Eurofins Scientific, Inc.
Louise Ogden	louise.ogden@state.mn.us	MN Dept of Ag.
Lu Wetzler	lwetzler@agr.ne.gov	NE Dept of Ag
Mark Coleman	mcoleman@lilly.com	Elanco
Mark Stenske	stenskem@michigan.gov	MI Dept of Ag
Matt Federking	Matt.federking@poetenergy.com	Poet Nutrition
Melton Bryant	mbryant@uky.edu	University of KY
Michael Stevenson	mstevenson@agri.idaho.gov	ID Dept of Ag
Richard Wickline	rwickline@ag.state.wv.us	WV Dept of Ag.
Roger Hoestenbach	rdh@otsc.tamu.edu	Office of Texas State Chemist
Roy Schulze	Roy.Schulze@Purina.Nestle.com	PFI Advisor
Sandy Flick	Sandy.Flick@alpharma.com	Alpharma
Sharon Webb	sharon.webb@email.uky.edu	University of KY
Steve Schneider	Steve.schneider@JBSUnited.com	JBS United
Tim Herrman	tjh@otsc.tamu.edu	Office of State Chemist
Vicki Siegel	vsiegel@purdue.edu	Office of IN State Chemist
William Friz	wfriz@agri.ohio.gov	OH Dept of Ag

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

Approval of Agenda – The agenda was approved (attached).

Approval of Minutes from the January Meeting –The Minutes from the meeting held on January, 2007 in Savannah, GA (attached) was approved.

Administrative Issues – Thiex reported that the following people had volunteered to take on the position as the “point person” for sub-committees addressing the tasks listed:

- John D. McCurdy: Submission of methods to and general management of the AAFCO FDA Master File
- LuAnn Wetzler: Updating and general management of Committee related web sites.
- Louise Ogden: Coordination of the activities of the QA Sub-group
- Aaron Price: Management of AOAC related projects including “needs statements”.

Technical Presentations:

Hyperspectral Imaging – Christian Nanson assisted by Tim Herrman, TX outlined some of the possibilities associated with the technique. It is essentially an “add-on” to reflectance NIR utilizing a somewhat narrower range (e.g., 450-900nm). Preliminary data showing the use of the technique for determining the presence of animal protein in feeds was presented. The equipment and software needed for the set-up was described as well. Participants mentioned that the technique may be of more use for QA related activities associated with pet foods.

Foodshield.org – Bill Krueger gave an overview of the web site. LabDIR essentially grew into FoodShield (www.foodshield.org). It is basically a contact management software package profiling lab staff, expertise and analytical equipment available at government and university labs. Participating labs enter their own info. It can be used for making presentations and real time workshops (e.g., webcasts). It is only accessible to state and federal laboratory personnel. Individuals employed by industry do not have access at this point nor are industry lab facilities listed. Working groups including participants from ACIL and Silliker are working on identifying where industry fits into the system.

REPORTS/TOPICS:

Future workshops – Tim Herrman, TX offered to host a series of workshops. He suggested the first workshop be focused on testing for aflatoxin, salmonella and E-coli. Max number of participants 16-20. If sufficient interest is expressed, TX will repeat the workshop in Jan 2009. In June 2009 Herrman suggested holding a workshop on the testing of biofuel byproducts and in June 2010 he offered to target MS applications, FTIR Spectroscopy and QA systems. Ogden and DeBaker offered to assist with the selection of methods covered and the organization of the workshops.

Action Item:

- Tim Herrman to draft survey and send it to Nancy Thiex for distribution.

Report from the Quality Sub-Group – Louise Ogden, Brenda Snodgrass and Aaron Price presented the updates to the AAFCO Quality Assurance/Quality Control guidelines. A new section was added on method uncertainty and Aaron Price outlined the approach described in the document for measuring method uncertainty. The revised document is complete pending the review by the Committee. Ogden asked for 2-3 volunteers to function as reviewers of the document. The sub-

committee hopes to have the document ready for sale through AAFCO by October. Order sheets are available (attached).

Action Item:

- Anyone willing to act as reviewer of the QA document should contact Ogden.

AAFCO Carbohydrate Working Group Proposal – Reimann reported on the recommendations of the Carbohydrate Working Group (attached). The need for developing methods to support the recommendations were discussed. It was agreed to start by identifying a satisfactory method for quantifying the sugars. A short survey of the participants present revealed that all the respondents used HPLC/Refractive Index but that the users were dissatisfied with the method especially when analyzing complex matrices such as animal feeds.

Reimann also reported that the EU was also in the process of addressing testing of carbohydrates in feed matrices.

Action Item:

- Reimann to contact instrument manufacturers (e.g., Agilent, Dionex, Waters, Metrohm, Bio-Rad) and ask them if they would be willing to discuss method options at the upcoming AOAC/AAFCO meeting. The AAFCO Lab Committee Meeting in Anaheim, CA is scheduled for Tuesday, September 18, 9-11 AM, AAFCO Meeting. An agenda is attached.

FDA Method Submission – Thiex reported that AAFCO had applied for and received acknowledgement from FDA for their Master File. The raw data for the Smallidge sulfamethazine study has been located and Siegel will work with Elanco QA people on preparing the appropriate package for submission to the FDA. The methods for lasalocid, oxytetracycline and decoquinatone will be submitted soon as well. McCurdy will facilitate the approval process within FDA.

Action Items:

- Siegel will with assistance from Elanco QA experts prepare package for submission to FDA
- Charlie Focht and Sandy Flick will work on submitting the lasalocid data to FDA
- Thiex and Alex MacDonald w/Phibro will work on submitting the OTC data to FDA
- Anivis Sanchez will work on submitting the decoquinatone data to FDA

AAFCO Related Web Sites – Thiex reported that several websites associated with the Committee need updating such as sections of the FERN, NFALC, AOAC and AAFCO websites. Wetzler and Thiex reported that AOAC did not seem interested in updating the AOAC Feed Contaminant web site and that the current AAFCO web site needs work. It was suggested that the Committee consider hosting ALL AAFCO related lab activities in a public accessible format on FoodShield or alternatively update the AAFCO web site.

METHOD TOPICS

Amprolium Method Needs Statement – Harold Campbell's draft of a method needs statement is published on the AOAC web site and needs to be reviewed by a FDA representative as well as representatives for the manufacturers/distributors for this compound in the US. Dennis McCurdy has offered to review the draft from a FDA perspective. Aaron Price is currently working on finalizing the document. The method as written does not have a detection limit that satisfies current residue concerns.

Bacitracin Needs Statement – Sondra Flick is in the process of drafting the needs statement.

Carbadox/Pyrantel Tartrate Needs Statement – Jane Sabbatini has drafted needs statements for the two drugs (attached) and has initiated the method development process. She will report on the status of the project at the upcoming AOAC meeting.

Action Item:

- Feedback regarding the needs statements must be submitted to Thiex by August 24. In absence of feedback the need statements will be considered approved as written

Chlortetracycline Method Study – Due to job change Jane Sabbatini has discontinued working on this project. Currently a need for new volunteer.

Decoquinatone Method Study – Thiex reported that Anivis Sanchez had received results back from the collaborating labs and was drafting the report. An update will be presented at the AOAC meeting.

Lasalocid Collaborative Study – Thiex reported that Charles Focht has submitted the report to AOAC for review. Scheduled to be presented at the annual AOAC meeting.

MGA Needs Statement – Jon Dalgleish has changed job and has discontinued working on the needs statement. Reimann to share needs statement draft w/ Pfizer (including Dawn Merritt) and asking them for their feedback.

Neomycin/Penicillin Method Study – Thiex reported that Julee Driver completed the SLV. Apramycin can also be monitored by this method. One of the gentamycin components is interfering but this was not considered a concern. Apramycin availability an issue since it is currently not sold in the US. Mark Coleman will check for availability of Type A Apramycin material to be used for spiking and for making fortified samples.

Oxytetracycline Collaborative Study – Thiex reported that the study was completed. The data from the 11 participating labs will be presented at the upcoming AOAC meeting.

Tylosin Needs Statement – Mark Coleman will update “needs statement” and provide basic performance parameters for method developed by Elanco.

Virginiamycin Needs Statement for Residue Levels – The approach for developing a method for determining low levels of virginiamycin in dried distillers grain and similar by-products from the ethanol production was discussed. Virginiamycin is the only FDA approved drug for managing the microbiological activity in the fermenters used for ethanol production. FDA has approved fortification levels in the fermenting vessel of between 3PPM and 6PPM and residue levels of between 0.2PPM to 0.5PPM in the final products are permitted. Richard Coulter with Phibro reminded everyone that Virginiamycin is a multicomponent drug where the individual components have some microbiological activity by themselves but that the activity of the mixture is far higher than the sum of the activity of each component (synergistic effects). It was generally agreed that it was more important to express the microbiological activity (using a microbiological growth inhibition type assay) than simply identifying the concentration of each individual component (using techniques such as LC-MS/MS). Coulter shared with the group that Phibro has contracted with a lab to develop a method with a LOQ of approximately 0.1PPM and that he would recommend to his associate that the method be presented at either the upcoming AOAC/AAFCO meeting in September or the AAFCO Mid Year meeting in January.

It was agreed to shelve further work on a “needs Statement” for Virginiamycin.

Multi-Analyte Pesticide Residue Method(s) – Thiex reported that nothing had changed since the January meeting.

Multi-Analyte Elemental Method (with focus on metals) – Thiex reported that the needs statement has been approved but that no volunteer has been identified to head up the project.

Multi-Analyte Mycotoxin Method – Thiex reported that Dr. Maria Ofitserova hoped to complete the SLV in 2007. She will present an update at the upcoming AOAC meeting.

Vitamin A Method Needs Statement – Vitamin A needs statement has been adopted.

Vitamins D and E Needs Statements – Dr. Riter is working on this project.

BSE Needs Statements – Herman volunteered to prepare needs statement

Other Business – Mark Coleman reported that AOAC was in the process of reorganizing its Committees and that a proposal will be presented at AOAC's Annual Meeting. The status of the promised 5 "free" method validation packages as well as the need for updating the AOAC OMA and information listed on the AOAC web site were discussed as well. EPA and FERN seem to have projects parallel with AOAC (competitors?), and AOCS seem to be more interested than AOAC in supporting method developments activities. It was mentioned that Darryl Sullivan in his position as the upcoming President-Elect for AOAC was a good person to contact to express concerns about the changing priorities within AOAC.

Note the following meetings/time at the upcoming Annual AOAC International Meeting in Anaheim, CA:

- Sunday, September 16, 1-5 PM, Presidential Task Force on Agricultural Materials Meeting
- Tuesday, September 18, 9 -12 AM, AAFCO Meeting
- Tuesday, September 18, 4:30 – 6:30 PM, Methods Committee on Feeds, Fertilizers, and Related Topics Meeting
- Wednesday, September 19, 1:30 – 4:30 PM Symposium: Agricultural Community Priority Studies and Emerging Feed Issues

Respectfully submitted,

Lars Reimann

Eurofins Scientific, Inc.

Attachments:

- Agenda for August Meeting
- Minutes of January meeting
- 2007 Annual AAFCO Laboratory Committee Report
- Carbohydrate working Group Recommendations
- Letter to establish AAFCO Master File
- AAFCO Master File
- AAFCO Workshop Survey
- Amprolium "Needs Statement"
- Carbadox "Needs Statement"
- MGA "Needs Statement"
- Pyrantel Tartrate "Needs Statement"

- Tylosin “Needs Statement”
- Order form for Quality Assurance Quality Control CD/Manual
- Draft Agenda for AOAC Ag. Committee Meeting September 16
- Draft Agenda for AAFCO Lab Committee meeting in Anaheim, CA September 18
- Agenda for AOAC Symposium for Anaheim, September 19