



Laboratory Methods and Services Committee Report/Minutes

2017 AAFCO Annual Meeting
August 11, 8:00 AM – 5:00 PM, Bellevue, WA

Committee Recommendations

Committee recommendation summary or list.

(1) None

Board Recommendations

Board recommendation summary or list.

(1) None

Association Actions

Association action summary or list.

(1) None

Committee Members Present

Aaron	Price	CFIA	Aaron.Price@inspection.gc.ca	Co-Chair
Nancy	Thiex	AAFCO	nancy.thiex@gmail.com	Co-Chair
Srinu	Chigurupati	FDA	srinirasulu.chagurupati@fda.hhs.gov	Member
Ametra	Berry	GA Dept. of Agriculture	ametra.berry@agr.georgia.gov	New member 8/2017
Deepika	Curole	LSU Dept. of Ag Chemistry	dcurole@ldaf.state.la.us	Member
Manisha	Das	FDA	manisha.das@fda.hhs.gov	Member
Ted	Gatesy	MI Dept. of Ag & Rural Dev	gatesyt@michigan.gov	Member
Teresa	Grant	NC Dept. of Agriculture	teresa.grant@ncagr.gov	Member
Casey	Guccione	KS Dept. in Ag	casey.guccione@ks.gov	New member 8/2017
Tai	Ha	Nebraska Dept. of Ag	tai.ha@nebraska.gov	member
Heidi	Hickes	MT Dept. of Ag	hhickes@mt.gov	Member
H. Dorota	Inerowicz	OISC	inerowic@purdue.edu	Member



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Sharon	Webb	UK Reg Services	sharon.webb@uky.edu	Member
Sara	Williams	OTSC	smw@otcs.tamu.edu	Member

Committee Advisors Present

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Bill	Hirt	ANAB	bhirt@anab.org	Advisor
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Melissa	Miller	Elanco		Advisor
Lars	Reimann	Eurofins	larsreimann@eurofins.com	Advisor
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Leo	Schilling	Eurofins	leoschilling@eurofins.com	Advisor

- 1) Call to Order
 - a. The Agenda was approved with minor changes.
 - b. Introductions – sign-up sheet sent around.
 - c. Review of Committee Roster and Appointments. Committee members were reminded of the requirement for them to vote electronically when requested.
- 2) It was agreed to move the discussion about ways to increase participation to the “Round Table Session” at the end of the agenda.
- 3) FDA Cooperative Agreement – Yvonne Salfinger and Nancy Thiex
 - a. PowerPoint presentation - She mentioned that FDA had put out an RFP for a much-expanded program on the Laboratory Curriculum Framework and APHL is taking the lead in preparing a response.
 - b. Data Acceptance document – link
<https://www.aphl.org/aboutAPHL/publications/Documents/FS-2017Jun-Best-Practices-Food-Feed-Data.pdf>
 - c. Nancy Thiex reported that the old contract was winding down. Grant Review: The Laboratory Accreditation meeting scheduled for January 2018 in New Mexico. The program had received a “no cost extension” through 2018 to complete several tasks in the pipeline including accreditation of PT program, updating of “Sample Guidelines” and producing webinars and lab workshops.
- 4) Update from FDA – Dan Rice
 - a. Reorganization – Program Alignment – FDA Office of Regulatory Affairs (ORA) Office of Human and Animal Foods is in the process of updating website.
 - b. There is still funding available for states but there will be reductions.
 - c. Methods available from FDA to states – BAM is up-to-date – not all methods are up-to-date on the website.
 - d. Lars - Approving LC-MS/MS – FDA has been hesitant about drug guarantees. Srinu: Denver lab is developing new methods for drugs, using LCMSMS. Dan Rice - Have issues in getting enough labs to do a multi-lab validation, will reach out to states. Lars: Our method needs statement – Aaron with LC-MS/MS may be more difficult to meet the 5% for lower level guarantees. Lei will take it back to the FDA lab group.
- 5) FSMA Implementation Task Force Update –Teresa Grant
 - a. Task force lab portion has not met in over a year. Waiting for hazards /process controls yet to be identified/completed. The lab portion will be added in 2018.
- 6) State Feed Lab Network (Center of Excellence) – Nancy
 - a. Nancy reported that the workgroup had prepared a white paper on the issue that had been submitted to the AAFCO BoD 1+ year ago and currently the Working group is in the process of putting together 2 surveys – a survey of needed analyses currently not available in state labs as well as services offered by state labs. Kristy McCallum requested that Micro be included in the surveys.
- 7) Working Group Updates (based on method needs)
 - a. Tylosin – Leo Shilling – PowerPoint

- i. Leo Shilling provided update, LC-MS/MS method – residue levels for feeds
 - ii. Dan Rice expressed interest in using Leo’s presentation to argue for accepting LC-MS/MS based methods. FDA Denver will provide additional info.
 - iii. Leo asked for labs interested in collaborating on methodology.
 - b. CTC – Leo Shilling – PowerPoint
 - i. HPLC method is “somewhat” “OK” but peak shape is poor. The method needs additional work. Leo asked for labs interested in collaborating on this issue.
 - ii. Not ready for interlaboratory – need collaboration from FDA/state labs.
 - c. Fat Soluble Vitamins – Ken Riter – PowerPoint. Ken Riter and Dorota Inerowicz reviewed the 2017 test results. Sample variability/homogeneity was significantly improved over the 2015 study. However, no one method stood out over the others, and only one vitamin E method was eliminated from consideration. The Working group will solicit validation data for the candidate methods and compare to the Methods Needs Statements and also consider other factors in selecting a method or methods to collaboratively study.
 - d. Multi-element – Sharon Webb, Michele Swarbrick and Bob Sheridan. The working group will have a presentation in January 2018.
 - e. Sugars – Dan Berg reported relatively little activity lately. Most efforts have centered around finding funding to take the method through the full AOAC process including establishing stakeholder and expert review panels. Most of the funding appears to have been found. A WG will meet on Sunday Sept 24 at 8:30 during the annual AOAC meeting. The focus will also include FOS/GOS analyses. The Covance method is currently undergoing a 4 lab method validation study. IDF-ISO also has a very similar method for sugar analysis. The use of arabinose as internal standard was suggested.
 - f. Dietary Starch – Lars Reimann reported that the Dietary Starch method developed by Dr. Mary Beth Hall was in its 3rd year as a First Action method and would be reviewed for Final Action status at the upcoming AOAC Annual meeting. He requested that users share any feedback they have concerning the use of the method with him as soon as possible.
 - g. Mycotoxin – Bob Sheridan reported that the WG was pretty much on “Hold” pending getting hold of the EU method. The WG needs guidance as to tasks and goals.
 - h. Best Practices Group – working on document addressing moisture determinations. Larry Novotny and Jane Caldwell presented survey and other data information. WG working on recommendations.
 - i. The previous white paper (focused on fiber analysis) will be published in JAOAC by John Fahey.
- 8) Vitamin A accreditation process at a State Lab – Heidi Hicke presented on the work that her lab went through in order to get the Vitamin A method developed by OISC to a validation status suitable for inclusion into her lab’s ISO scope.

- 9) Effects of particle size of extraction size for effective mycotoxin analysis - Julie Brunkhorst– PowerPoint. Julie presented data showing how the analytical variability associated with mycotoxin analyses could be reduced through further particle size reduction and the use of a larger analytical portion. She recommended grinding to pass a 20 mesh screen and using a 25 g analytical sample portion.
- 10) Mycotoxin best practices – Nancy Thiex reported that Distillers Grain Council had developed a working group currently with 43 participants. Goal for the group is to produce scientifically supported, publishable recommendations.
- 11) Method Needs Survey - Sharon Webb reported the results of a survey that had been completed by State feed labs focusing on reviewing and prioritizing method needs.
- 12) Quality Assurance Sub-Committee-
 - a. Kristi McCallum outlined what services the Quality Assurance Sub-Committee makes available to regulatory labs. She also mentioned that FDA provides free PT samples as well.
 - b. Bill Hirt reviewed the challenges behind traceability of measurements including
 - i. Measurement of uncertainty
 - ii. Metrological Traceability
 - iii. Proficiency testing
- 13) Laboratory Sampling Program – Nancy Thiex, Michele Swarbrick and other WG members provided an update on the “Guidance on Obtaining Defensible Test Portions” (aka “Good Test Portions”). The original document was written in 2000 but is now being updated. Currently reviewing Sample Quality Criteria. Discussion where a 2-day training seminar would be held (e.g., in connection with an AOAC meeting and whether a WebEx option should be included).
- 14) Round table discussion:
 - a. FDA brought out the issue of updating a method for analyzing thiamine in canned cat food in response to recent cases of deficiencies associated with products in commerce. It was agreed that a method needs statement needed to be completed as well as a review of available methods.
 - b. FDA was interested in getting an assessment of how many tests for ruminant material in feeds and ingredients was carried out annually using PCR based methods. FDA is considering providing primers for such tests and needed to know the required amount.
 - c. AAFCO requested suggestions of methods worthy of / in need of funding similar to the funding of the establishment of the sugar method. Suggestions should be forwarded to Nancy Thiex.
 - d. Suggested actions that might increase state participation in the LM&S Committee meetings included
 - i. Have labs talk about what they do
 - ii. Give travel grants to States
 - iii. Add chemistry training
 - iv. Highlight that calling in is an option in most cases
 - v. Make a lab flier as part of outreach activities (need WG)
 - vi. Survey why some states do not send staff to meeting.

- e. Criteria for humidity in grinding rooms. The issue of humidity in grinding rooms and its effect on sample prepared under those conditions were discussed. It was suggested to develop a recommended standard addressing this issue.

Action Item Table

Responsible	Item	Action	Timing / Status
State feed lab network W.G.	Survey	Develop 2 surveys to send to State labs and Program officials to solicit the current laboratory method capabilities and capacities and perceived program needs.	Before Jan. 2018
Fat soluble vitamin W.G.	Survey	Survey labs that participated in the inter-laboratory testing to collect their method details.	Before Jan. 2018
Multi-element W.G.	Start-up	Sharon Webb, Michele Swarbrick and Robert Sheridan to start this working group and present work so far at the next AAFCO meeting in January	January 2018 meeting
Multi-mycotoxin W.G.	Guidance	The working group will solicit guidance from the committee to determine what are its tasks and goals.	Before Jan. 2018
Best Practices W.G.	Moisture	The group will prepare the final recommendations for the moisture methods.	January 2018 meeting

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