



AOAC INTERNATIONAL

Stakeholder Panel for Infant Formula and Adult Nutritionals (SPIFAN)

Sheraton Denver Downtown Hotel

1550 Court Place

Denver, CO, USA

September 7, 2019 – 2:00pm (Mountain US)

REPORT OF THE NUTRIENTS EXPERT REVIEW PANEL (ERP) PROCEEDINGS

Expert Review Panel Members (in attendance):

Darryl Sullivan

Sneh Bhandari

Sean Austin/Esther Campos-Giménez

Scott Christiansen

Hans Cruijisen/Martine van Gool

Brendon Gill/Harvey Indyk

Don Gilliland/Karen Schimpf

Estela Kneeteman

Melissa Phillips/Kate Rimmer

Shay Phillips

Jinchuan Yang

David Woollard

Eurofins Food Integrity and Innovation (Chair)

Mérieux NutriSciences

Nestlé

Perrigo Nutritionals

FrieslandCampina

Fonterra Cooperative

Abbott Nutrition

INTI

NIST

RB-Mead Johnson Nutrition

Waters Corp.

Hill Labs

Expert Review Panel Members (unable to attend):

John Austad

Adrienne McMahon

Harvey Indyk

Maria Ofitserova

Jie Zhang

Eurofins Food Integrity and Innovation

Wyeth

Fonterra Cooperative

Pickering Labs, Inc.

RB-Mead Johnson Nutrition

Observers:

Karim Amoura, Thermo Fisher Scientific
Daniel Berg, Eurofins
Julie Blackwell, Eurofins Food Integrity & Innovation
Joe Boison, Independent Consultant
Joana Cavalheiro, Danone Nutricia Research
France Cho, Bureau Veritas Laboratories
Neal Craft, Eurofins Scientific
David Dain, DSM Nutritional Products
Aurelie Dubois, International Dairy Federation
David Ellingson, Eurofins
Ping Feng, Wyeth Nutrition
Ming Gao, Merieux NutriSciences
Eric Gordon, Merieux NutriSciences
Tetsu Goto, CSC JP
Philip Haselberger, Abbott Nutrition
Yoshiko Hirao, Shimadzu Corporation
Greg Jaudzems, Nestlé

George Joseph, AsureQuality
Estela Kneeteman, INTI
Erik Konings, Nestlé
Joe Konschnik, Restek Corporation
Kai Liu, Eurofins Nutrition Analysis Center
Chang Liu, RB-Mead Johnson
Karen Mandy, Danone
Eystein Oveland, Institute of Marine Research
Melissa Meaney Phillips, NIST
RJ Raterink, Triskelion
Dustin Starkey, Abbott Nutrition
Jing Tan, Abbott Nutrition R&D Singapore
Melissa Thompson, Eurofins Food Integrity & Innovation
Joseph Thompson, Abbott Nutrition
Martine Van Gool, FrieslandCampina
Jeroen Vansoest, Eurofins
Laura Wood, NIST

AOAC Staff:

Delia Boyd
Marida Hines
Deborah McKenzie
Alicia Meiklejohn
Tien Milor
Palmer Orlandi (Deputy Executive Director/CSO)
La’Kia Phillips

I. WELCOME AND INTRODUCTIONS

Darryl Sullivan welcomed all participants to the ERP meeting and introduction of the ERP members.

II. REVIEW OF METHODS BY EXPERT REVIEW PANEL (ERP) FOR FIRST ACTION OFFICIAL METHODSM STATUS

The Expert Review Panel (ERP) reviewed three (3) methods for Final Action *Official Methods*SM consideration.

Method	Method Title	Reviewer(s)	Vote	Recommendation(s)
Amino Acids	Amino-04 – Determination of free and/or total proteinogenic amino acids and taurine by pre-column derivatisation and UHPLC	Estela Kneeteman Maria Ofitserova	Motion: to recommend Amino-04 as First Action Estela Kneeteman (moved) David Woollard (second) Unanimous	<ul style="list-style-type: none"> ○ Recommend total proteinogenic amino acids <p style="text-align: center;">Comments</p> <ul style="list-style-type: none"> ○ Method author should put conditions around hydrolysis ○ List criteria around repeatability ○ Safety issues for open flame
Fluoride	Fluor-03 – Determination of Fluoride in Infant and Adult/Pediatric Nutritional Formula by Ion Chromatography with sequentially suppressed conductivity detection	Melissa Phillips Brendon Gill	Motion: to recommend Fluor-03 as First Action Melissa Phillips (moved) Brendon Gill (second) Gill withdraws motion Second Round Voting Melissa Phillips (moved) David Woollard (second) No vote taken	<ul style="list-style-type: none"> ○ Compare method with Fluor-04 <p style="text-align: center;">Comments</p> <ul style="list-style-type: none"> ○ Method includes patent components/proprietary instrument (dialysis) ○ Method author stated that dialysis is optional ○ Concerns about the chromatography
	Fluor-04 – Fluoride Determination in Milk, Soy, and Water-Based Products Using Ion Selective Electrode and Direct Measurement Technique	Scott Christiansen Jinchuan Yang	Motion: to recommend Fluor-04 as First Action Melissa Phillips (moved) David Woollard (second) Yes-4/ No-3/Abstain-3	<ul style="list-style-type: none"> ○ More accuracy data is needed/better measure of accuracy <ul style="list-style-type: none"> ▪ Spike ▪ Recovery ○ Need consistent units (mcg per 100g) in ready to feed
<p>ERP Recommendations for fluoride:</p> <ul style="list-style-type: none"> ▪ Accuracy of fluoride levels need to be demonstrated in infant formula ▪ Need suggestions from both study directors on how to measure the accuracy ▪ Confirm that the results are in SPIFAN units <ul style="list-style-type: none"> ○ mcg per 100g (ready to feed) ▪ Need to see more chromatograms for Fluor-03 (samples with low levels of fluoride) ▪ Difference in results for placebos and fortified products (expect it to be similar) ▪ Confirm which SRM for each of the labs (1849a or 1869) ▪ For Ca, Mg, Al (what is the max level of recovery?) - determine recovery using the fluoride salts <p>Motion to accept recommendations:</p> <p>Melissa Phillips moved/Sneh Bhandari second</p> <p>Unanimous/1 abstention</p>				

III. NEXT STEPS/FEEDBACK FROM EXPERT REVIEW PANEL

Darryl Sullivan provided next steps including recommendations to the method authors.

❖ To access the ERP Reviewer forms please [click here](#) or <https://cld.bz/7LII4yo>