



AOAC INTERNATIONAL

Stakeholder Panel for Infant Formula and Adult Nutritionals (SPIFAN)

Meeting at the Sheraton Centre Hotel

123 Queen Street W
Toronto, ON M5H2M9, Canada

Saturday, August 25, 2018 - 1:00pm (Eastern US)

REPORT OF THE NUTRIENTS EXPERT REVIEW PANEL (ERP) PROCEEDINGS

Expert Review Panel Members (in attendance):

Darryl Sullivan

Sneh Bhandari
Esther Campos-Giménez/Sean Austin
Scott Christiansen
Brendon Gill
Estela Kneeteman
Maria Ofitserova
Melissa Phillips/Kate Rimmer
Shay Phillips
Joe Thompson
Jinchuan Yang
David Woollard

Eurofins Food Integrity & Innovation (Chair)

Mérieux NutriSciences
Nestlé
Perrigo Nutritionals
Fonterra Cooperative
INTI
Pickering Labs, Inc.
NIST
Mead Johnson Nutrition
Abbott Nutrition
Waters Corp.
Independent Consultant

Expert Review Panel Members (unable to attend):

John Austad
Jon DeVries
Don Gilliland/Karen Schimpf
Harvey Indyk
Adrienne McMahon
Günther Raffler
Martine van Gool
Jie Zhang

Eurofins Food Integrity & Innovation
DeVries & Associates
Abbott Nutrition
Fonterra Cooperative
Wyeth/ Nestlé
Eurofins/CLF
FrieslandCampina
Mead Johnson Nutrition

AOAC Staff Includes:

David Schmidt (*Executive Director*)
Delia Boyd
Sharon Brunelle (*AOAC Consultant*)
Arlene Fox
Jonathan Goodwin (*Deputy Executive Director*)
Nora Marshall

Deborah McKenzie
Alicia Meiklejohn
La’Kia Phillips
Bob Rathbone
Joyce Schumacher

Observers:

Claude Aebischer, DSM

Sean Austin, Nestec

Sneh Bhandari, Silliker Laboratories

David Bolliet, Kalsec

Esther Campos-Gimenez, Nestle

Liu Chang, Mead Johnson

Liwen Chen, USP

France Cho, Maxxam Analytics

Hans Cruijzen, FrieslandCampina

David Dain, DSM Nutritional Products

Jonathan Draher, Abbott Nutrition

Aurelie Dubois, International Dairy Federation

Ping Feng, Wyeth nutrition

Brendon Gill, Fonterra

Philip Haselberger, Abbott Nutrition

Steve Holroyd, Fonterra

Greg Jaudzems, Nestlé

George Joseph, AsureQuality

Joe Konschnik, RESTEK

Mary Krogull, Eurofins Scientific Inc.

Sookwang Lee, FDA

Chang Liu, MJN

Rodney Major, Maxxam Analytics

Elaine Marley, R-Biopharm Rhone Ltd.

Katerina Mastovska, Eurofins Food Integrity & Innovation

Maria Ofitserova, Pickering Laboratories

Eystein Oveland, Institute of Marine Research

Melissa Phillips, NIST

Robert Rankin, INCA

Joe Romano, Waters Corporation

Tom Seipelt, Abbott Nutrition

Sean Singh, Synlait Milk Limited

Kathryn Stanley, Archer Daniels Midland

Dustin Starkey, Abbott Nutrition

Yijin Tang, Applied Food Science

Marina Torres, LATU

Jeroen Van soest, Eurofins ccc

Wayne Wargo, Abbott Nutrition

Kelsey West, Abbott Nutrition

Kenny Xie, U.S. Pharmacopeia

Sudhakar Yadlapalli, First source laboratory solutions LLP

Jinchuan Yang, Waters Corporation

I. WELCOME AND INTRODUCTIONS

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

II. REVIEW OF METHODS BY EXPERT REVIEW PANEL (ERP) FOR FIRST ACTION *OFFICIAL METHOD*SM STATUS – AOAC SPIFAN II

For each method, the ERP/Working Group Co-Chairs discussed methods submitted. Two (2) methods were received and reviewed and both methods received First Action *Official Method*SM status.

Method	Method Title	Reviewer(s)	Vote	Comments
Amino Acids	<i>Amino-01 - Single Laboratory Validation Report for Total Amino Acids by UHPLC-UV in Infant Formulas and Adult Nutritionals</i>	Maria Ofitserova Estela Kneeteman Shay Phillips	<p>Motion: To recommend method as First Action</p> <p>First Round Voting Maria Ofitserova (moved) Estela Kneeteman (second)</p> <p>Yes-9/ No-1/Abstain-3</p> <hr/> <p>Second Round Voting Yes-11/ No-0/Abstain-2</p> <p>ERP adopts the method First Action <i>Official Method</i>SM status</p> <hr/> <p>Motion: To move method to multi-laboratory testing (MLT)</p> <p>Yes-12/ No-0/Abstain-1</p>	<ul style="list-style-type: none"> ▪ Method is clearly written ▪ Asparagine reports higher ▪ Reproducibility and recovery data for many amino acids don't meet SMPR. ▪ The method allows the determination of several amino acids in one single analysis
B Vitamins (B₃ Only)	<i>BVit-02 - Simultaneous Determination of Total Vitamin B3 in Infant Formula Products by LC-MS/MS Using Enzymatic Digestion</i>	Scott Christiansen Estela Kneeteman Esther Campos-Gimenez	<p>Motion: To recommend method as First Action</p> <p>Scott Christiansen (moved) Estela Kneeteman (second)</p> <p>Yes-12/ No-0/Abstain-1</p> <p>ERP adopts the method First Action <i>Official Method</i>SM status</p> <p>This method was also recommended to be reviewed as Final Action along with (B₁, B₂, B₆)</p>	<ul style="list-style-type: none"> ▪ The method is clear, descriptive and easy to follow in its current format ▪ No data about the use of blanks and no data about calibration curve of standards included in the report ▪ System suitability check <ul style="list-style-type: none"> ○ Part of the QC

Method	Method Title	Reviewer(s)	Vote	Comments
AMINO ACIDS (Tryptophan)	OMA# 2017.03 (Amino-02) - HPLC Determination of Total Tryptophan in Infant Formula and Adult/Pediatric Nutritional Formula Following Enzymatic Hydrolysis	Maria Ofitserova Estela Kneeteman Shay Phillips	<p>Motion: To recommend method as Final Action with the acceptance to ISO guidelines</p> <p>Maria Ofitserova Shay Phillips</p> <p>Yes-12/ No-0/Abstain-1</p> <p>ERP recommends the method move to Final Action <i>Official MethodSM</i> status</p>	<ul style="list-style-type: none"> ▪ Reproducibility & repeatability data for Soy-based partially hydrolyzed Infant Formula (powder) didn't meet SMPR
B VITAMINS	OMA# 2015.14 (BVit-02) - Simultaneous Determination of Total Vitamins B1, B2, B3, and B6 in Infant Formula and Related Nutritionals by Enzymatic Digestion and LC-MS/MS	Scott Christiansen Estela Kneeteman Esther Campos-Gimenez	<p>Motion: To recommend method as Final Action</p> <p>Scott Christiansen Estela Kneeteman</p> <p>Yes-11/ No-1/Abstain-1</p> <p>ERP recommends the method move to Final Action <i>Official MethodSM</i> status</p> <p>Yes-11/ No-1/Abstain-1</p>	<ul style="list-style-type: none"> ▪ The method meets the SMPR

III. NEXT STEPS/FEEDBACK FROM EXPERT REVIEW PANEL

Darryl Sullivan provided next steps.