

METHODS COMMITTEE REPORTS

Committee on Food Nutrition

JOHN SZPYLKA, CHAIR

General Mills/Medallion Laboratories, 9000 Plymouth Ave
North, Minneapolis, MN 55427

SHANG-JING PAN, SECRETARY

Abbott Nutrition International, 3300 Seltzer Rd, Columbus,
OH 43219

MARIA SARITA S. CARDOZO

Alcohol and Tobacco Tax and Trade Bureau, 490 North
Wiget Ln, Walnut Creek, CA 94598

KRISTINE Y. PATTERSON

U.S. Department of Agriculture, Nutrient Data Laboratory,
Bldg 005, Room 201, BARC-West, Beltsville, MD 20705

JEANNE I. RADER

U.S. Food and Drug Administration, Center for Food
Safety and Applied Nutrition, 5100 Paint Branch Pkwy,
HFS 715, College Park, MD 20740-3835

DIRK D. SHOEMAKER

Nebraska Department of Agriculture, 3703 South 14th St,
Lincoln, NE 68502

MARINA GRACIELA TORRES RODRIGUEZ

Laboratorio Tecnológico del Uruguay, Av. Italia 6201,
Montevideo 11500, Uruguay

DAVID C. WOOLLARD

New Zealand Laboratory Services Ltd, 35 O'Rorke Rd,
Penrose, Auckland 1061, New Zealand

KATHERINE E. SHARPLESS, PAST CHAIR

National Institute of Standards and Technology, Analytical
Chemistry Division, 100 Bureau Dr, Stop 8390,
Gaithersburg, MD 20899-8390

JOHN G. PHILLIPS, STATISTICAL ADVISOR

U.S. Department of Agriculture, Agricultural Research
Service, Eastern Regional Research Center, 600 E.
Mermaid Ln, Wyndmoor, PA 19038-8551

SARA M. WILLIAMS, SAFETY ADVISOR

Office of the Texas State Chemist, PO Box 3160, College
Station, TX 77841-3160

EDWIN C. PHIFER, GENERAL REFEREE

U.S. Food and Drug Administration, Southeast Regional
Laboratory, 60 8th St NE, Atlanta, GA 30309

MARY A. GODSHALL, GENERAL REFEREE

Sugar Processing Research, Inc., 1100 Robert E. Lee Blvd,
New Orleans, LA 70124

CHRISTOPHER J. BLAKE, GENERAL REFEREE

Nestec Ltd, Quality and Safety Assurance Department,
Nestle Research Center, Ves-chez-les-Blanc, PO Box 44,
Lausanne 26, 1000-CH, Switzerland

Committee Actions

Seven methods are currently at various stages of study and review as described in the General Referee report. One study request has been withdrawn. One method is in need of a technical modification.

Dietary Fiber—General Referee, Barry V. McCleary

In 2007, the General Referee published a method for measurement of dietary fiber that includes resistant starch and nondigestible oligosaccharides. This method is the subject of a current AOAC INTERNATIONAL/AACC International interlaboratory study, funded by Kellogg's, Kraft, and Tate & Lyle.

The method is a modification of AOAC Method **2002.02**, Resistant Starch; and AOAC Method **2001.03**, Resistant Maltodextrins. To allow collaborators to become familiar with the method, a set of 6 samples was sent to each collaborator, together with the required reagents and resins. At this stage, results have been received from most of the participating laboratories. The full interlaboratory study will be initiated within the next 2 weeks. This will involve 16 samples (8 blind duplicates) and approximately 16 laboratories.

A request was submitted to the Methods Committee on Food Nutrition for a collaborative study of "Determination of Alpha-Cyclodextrin in Various Foods by High-Performance Liquid Chromatography." The co-Study Directors are John Szpylka and Kerri Gustafson. The study is to be funded by Medallion Laboratories, Minneapolis, MN. Continue study.

*Fat and Fatty Acids—General Referee,
Edwin C. Phifer*

There has been no activity since the last report.

Elements—General Referee, Lars Jorhem

There has been no activity since the last report.

*Protein and Amino Acids—Vacant**Sugars—General Referee, Mary An Godshall*

There has been no activity since the last report.

*Fat-Soluble Vitamins—General Referee,
Christopher J. Blake*

There has been no activity since the last report.

*Water-Soluble Vitamins—General Referee,
Erik J.M. Konings*

The collaborative study report for OMA-2007-Jun-023 “Determination of Vitamins B12, Biotin, Folic Acid, and Pantothenic Acid by Surface Plasmon Resonance in Fortified Bovine Milk-Based Infant Formula, Fortified Soya-Based Infant Formula, Fortified Baby Food, Fortified Cereals, Vitamin Premix, and Fortified Dietary Supplements” was accepted by the General Referee and committee chair. Study Director Pathik Vyas, 131 Boundary Rd, POB 41, Blockhouse Bay, Auckland, New Zealand, Tel: 649-626-8216, Fax: 649-626-8282, E-mail: vyasp@agriquality.co.nz. The study is underway.

Continue extension of the AOAC Official Method for liquid chromatographic analysis of vitamin B6 in infant formula the determination of vitamin B6 in baby food, biscuit, cereals, yeast, tube-feeding solution, chocolate powder, and powdered milk. This work is underway.

A proposed amendment to AOAC Method **2004.05**, “*Total Foliates in Cereals and Cereal Foods: Microbiological Assay—Trienzyme Procedure*,” was submitted and accepted by the General Referee. An inadvertent omission was observed in the submission of the final paper. The original Study Director is addressing the point.

*Nonvitamin Micronutrients—General Referee,
Harvey E. Indyk*

Determination of IgG in Colostrum Products: Affinity LC Method.—Study Director Grant Abernethy, Fonterra Research Centre, Palmerston North, New Zealand, E-mail: grant.abernethy@fonterra.com. Abernethy has identified and recruited collaborators. The revised protocol has been approved and the experimental phase will now commence. This is a new method study and is funded by Fonterra, New Zealand.

Determination of IgG in Colostrum Products: Biosensor Method.—Study Director Leyton Gapper, Fonterra Research Centre, Palmerston North, New Zealand, E-mail: leyton.gapper@fonterra.com. Gapper has identified and recruited collaborators. The revised protocol is currently under peer review. Pending approval, the experimental phase will commence. This is a new method study and is funded by Fonterra, New Zealand.

Following a 2006 committee ranking of priority nutritional analytes requiring official reference methods, a request was submitted to the Methods Committee on Food Nutrition for a proposed collaborative study of the “Determination of Intact 5’ Mononucleotides in Infant Formulas by HPLC.” A single-laboratory validation is currently available, and work is in progress towards extending the method for hypoallergenic formulas. The candidate Study Director is Brendon Gill of Fonterra, New Zealand.

A 2007 proposal for a collaborative study on the “Determination of Antioxidant Activity in Foods by Reaction with the Stable Radical DPPH” by General Mills has been withdrawn.