

METHODS COMMITTEE REPORTS

Committee on Dietary Supplements

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Committee Actions

Appointments

Rick Myers has assumed the position of chair replacing co-chairs Mark Roman and Richard Ko.

Randy Smith from Covance has agreed to assume the position of secretary.

Working Groups

Several industry working groups in the dietary supplement community have interacted with the Committee on Dietary Supplements that will be submitting methods for validation in the near future. These working groups include Omega-3, phenolics, CoQ10, and SAME.

General Referee Reports

Botanicals and Dietary Supplements.—General Referee Paula Brown, British Columbia Institute of Technology, 3700 Willingdon Ave, Burnaby, British Columbia, Canada V3G 3H2

2003.10 Ephedrine Alkaloids in Human Urine and Plasma by Liquid Chromatography/Tandem Mass Spectrometry.—Study Director Bill Trujillo, Covance Laboratories, 3301 Kinsman Blvd, Madison, WI 53704. Trujillo has retired. Contact Darryl Sullivan at E-mail: darryl.sullivan@covance.com. Method adopted First Action in 2003. No comments have been received. Continue study.

2003.13 Ephedrine and Pseudoephedrine in Botanicals and Dietary Supplements by HPLC-UV.—Study Director Mark Roman, Tampa Bay Analytical Research, Safety Harbor, FL, Tel: 727-422-8028, E-mail: mroman@tampabayanalytical.com. Method adopted First Action in 2003. No comments have been received. Continue study.

2005.01 Glucosamine in Raw Materials and Dietary Supplements Containing Glucosamine Sulfate and/or Glucosamine Hydrochloride.—Study Director Joseph Zhou, NOW Foods Inc., 395 Glen Ellyn Rd, Bloomingdale, IL 60108, Tel: 630-545-9098 ext. 360, E-mail: jzhou@nowfoods.com. Single-laboratory validation (SLV) was performed on an HPLC method for determining glucosamine content in dietary supplements and raw material after FMOC-Su derivatization. Results indicated the method to be selective and specific, with great reproducibility. A collaborative study of the method was performed from May 17–June 10, 2004. The method was revised and then approved as an AOAC Official First Action Method in April 2005. The collaborative study report was published (Zhou, J., Waszkue, T., & Mohammed, F. (2004) *J. AOAC Int.* **87**, 1083–1092). Continue study.

2005.07 Determination of β -Carotene in Supplements and Raw Materials by Reversed-Phase HPLC.—Study Directors Jonathon DeVries and John Szpylka, General Mills, Inc.,

9000 Plymouth Ave, Minneapolis, MN 55427-3870, Tel: 763-764-2274, 763-764-3078, E-mail: jon.devries@genmills.com; john.szpylka@genmills.com. Intercolaborative study completed. The method was accepted for Official First Action with the exception of the beadlets matrix. Additional investigation is ongoing with the beadlets. Continue study.

Ginkgo Flavonol Glycosides.—Study Director Dean Gray, Midwest Research Institute, 425 Volker Blvd, Kansas City, MO 64110-2299, Tel: 816-753-7600, E-mail: dgray@mrresearch.org. The final collaborative manuscript has been completed and submitted. It is expected that this is the final review.

Phytosterols in Saw Palmetto.—Study Director Wendy Sorenson, Covance Laboratories, Tel: 608-310-8206, E-mail: wendy.sorenson@covance.com. OMA-2004-Nov-022: Determination of Campesterol, Stigmasterol, and Beta-Sitosterol in Saw Palmetto Raw Materials and Dietary Supplements by Gas Chromatography. The collaborative study has been conducted and the manuscript has been finalized and submitted to AOAC.

Aristolochic Acid.—Study Coordinator Wendy Sorenson. The collaborative study has been completed and the manuscript submitted to AOAC. Continue study.

Terpene Lactones in Ginkgo.—Study Coordinator Dean Gray. The proposed method requires ELSD for detection. This might cause difficulty in finding collaborative laboratories having this technology.

St. John's Wort.—Study Coordinator Steve Baugh, ChromaDex Analytics, 2830 Wilderness Pl, Boulder, CO 80301, Tel: 303-442-4281, E-mail: steveb@chromadex.com. Method selected by Expert Review Panel (ERP) is currently undergoing SLV. Several problems with the method related to analyte stability have been encountered. Many of these problems have been resolved. Continue study.

Chondroitin Sulfate.—Study Coordinators Joseph Zhou and David Ji. The method has been selected and is currently undergoing SLV. The SLV is completed and the report will be submitted by the end of March 2007. Continue study.

Coenzyme Q10.—Working Group Chair Barry Titlow, Compound Solutions, Inc., 2215 Vineyard Ave, Escondido, CA 92029, Tel: 760-739-9881, E-mail: btitlow@compoundsolutions.com. Seeking Study Director. The method has been selected and is currently undergoing SLV. In addition the SLV manuscript is completed and will be submitted by the end of December. Collaborative laboratories have been identified. Continue study.

Lutein.—Study Coordinator Ed Waysek, Caravan Products/AOAC, Totowa, NJ, Tel: 973-256-8886 ext. 585,

E-mail: waysek@aoac.org. The method has been selected by ERP. Kemin Laboratories has agreed to conduct the SLV. Expect completion and report submitted by end of December. Continue study.

Lycopene.—Study Coordinator Ed Waysek. The method has been selected and is currently undergoing SLV. Joseph Schierle (DSM Nutritional Products, Ltd., Wurmiseg 576, 205/225B-A. Mueller Kaiseraugst, CH-4303, Tel: 41-61-688-2439, E-mail: joseph.schierle@dsm.com) has agreed to serve as Study Coordinator and is lining up collaborative laboratories. Expect report by the end of December. Continue study.

MSM.—Study Coordinator Ed David Lakey, Cardinal Nutrition, Vancouver, WA, Tel: 360-693-1883, E-mail: dlakey@cardinalnutrition.com. The method has been selected by the ERP. DMSO has been identified as an impurity in raw materials. Joseph Zhou (NOW Foods) has agreed to serve as Study Coordinator. SLVs for MSM and DMSO should begin in early October. Continue study.

Vitamin E.—Study Coordinator John Austad, Covance Laboratories, Tel: 608-310-8201, E-mail: john.austad@covance.com. The method has been selected and is currently undergoing SLV. Continue study.

Echinacea.—The ERP selected a method. Paula Brown has agreed to complete SLV on raw materials (3 species). Need to identify a Study Coordinator. Continue study.

Ginseng.—The ERP selected a U.S. Pharmacopeia method. Paula Brown has agreed to complete SLV on raw materials. Some difficulty in finding finished products and a Study Coordinator. Brown lined up 10 potential collaborative laboratories. Continue study.

SAME.—The ERP selected a method. There is a stability issue with reference standard. Work has begun on using surrogate reference material. Draft SLV protocol has been written. Continue study.

Omega 3 Fatty Acids.—The ERP has suggested using the food method. Erik Hagestuen, Cargill Health and Food Technologies, 2500 Shadywood Rd, Excelsior, MN 55331, Tel: 952-742-3065, E-mail: Erik_Hagestuen@cargill.com. Hagestuen is working on method modifications. If SLV works and Committee decides that modifications are not major, this could circumvent the collaborative study. Continue study.

Isoflavones.—The ERP selected a method and SLV should be completed by end of October. Mark Collison (Archer Daniels Midland, 1001 Brush College Rd, Decatur, IL 62521-1656, Tel: 217-451-4740, E-mail: collison@admworld.com) has lined up 12 laboratories for collaborative study. Continue study.