

METHODS COMMITTEE REPORTS

Committee on Dietary Supplements

MARK C. ROMAN, CO-CHAIR

ChromaDex Inc., 13161 56th Ct, Suite 201, Clearwater, FL 33760

RICHARD J. KO, CO-CHAIR

California Department of Health Services, Food and Drug Branch-MS 7602, PO Box 997413, Sacramento, CA 95899-7413

ARGENTINA VINDIOLA, SAFETY ADVISOR

Office of the Texas State Chemist, PO Box 3160, Ross and Ireland Sts, 307 Reed McDonald Bldg MS2114, College Station, TX 77840

RICHARD NEWELL, STATISTICAL ADVISOR

U.S. Food and Drug Administration, Division of Mathematics, 5100 Paint Branch Pkwy, HFS 705, College Park, MD 20740-3835

RICHARD GRAZZINI, SECRETARY (RETIRED)

Exygen Research, 3058 Research Dr, State College, PA 16801

RANDALL SMITH, ACTING-SECRETARY

Covance Laboratories, 3301 Kinsman Blvd, Madison, WI 53704-2523

JAMES NEAL-KABABICK, PAST-CHAIR

Flora Research, 1000 SE M St, Unit B, Grants Pass, OR 97526

MARTHA GAY

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

DAVID JI

Analytical Laboratories in Anaheim, Inc., Ste Q, 1241 N Lakeview Ave, Anaheim, CA 92807-1832

DEAN GRAY

Midwest Research Institute, 425 Volker Blvd, Kansas City, MO 64110-2299

MARK L. ANDERSON

Triarco Industries Inc., 400 Hamburg Tpk, Wayne, NJ 07470

GUOAN LUO

Analytical Center of Tsinghua University, School of Life Science & Engineering, Beijing 100084, People's Republic of China

AMITABH CHANDRA

Access Business Group, Analytical Services, 7575 Fulton St E., Ada, MI 49355

YU SHAO

GlaxoSmithKline, 1500 Littleton Rd, Parsippany, NJ 07054

STEVEN J. DENTALI

American Herbal Products Association, 8484 Georgia Ave, Suite 370, Silver Spring, MD 20910

Committee Actions

Richard Ko from the California Department of Health Services agreed to be appointed co-chair of Committee K earlier this year. Committee K welcomes Richard aboard and looks forward to his contributions.

Rick Grazzini unfortunately resigned as Committee K's secretary recently due to his increased job responsibilities. Committee K would like to thank Grazzini for all his hard work over the last few years. Randy Smith from Covance has agreed to assume the position of secretary. Committee K would like to welcome him in his new role.

There are currently 4 methods that have been approved by Committee K for Official First Action, and 2 methods which currently are undergoing collaborative study. In addition, 3 single-laboratory validation protocols have been approved by Committee K.

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

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, Tel: 608-310-8201, E-mail: bill.trujillo@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, ChromaDex, 13161 56th Ct, Suite 201, Clearwater, FL 33760, Tel: 727-573-9229, E-mail: mark.roman@chromadex.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 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 5/17/04 to 6/10/04, the method revised and then approved as an AOAC Official Method First Action in April 2005. The collaborative study report was scheduled for publication in *J. AOAC Int.* in July/Aug 2005. 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, E-mail: jon.devries@genmills.com and 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 collaborative study is finished and the draft manuscript is complete. At this time, it is under internal review (Ed Waysek and Kerri LeVanseler), and it is expected to be uploaded to the AOAC Website shortly. Continue study.

Phytosterols in Saw Palmetto: Study Director Wendy Sorenson, Covance Laboratories, 3301 Kinsman Blvd,

Madison, WI 53704, 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 final collaborative protocol and samples (practice and test samples) were sent out to 11 participating laboratories on March 30, 2005. The study was delayed approximately 2 weeks in order to supply each collaborator with the reference standards for beta-sitosterol and stigmasterol. All practice sample results have been received with the exception of one laboratory, which did not meet the instrument check-out requirements. Of the data received, there is some variation. No collaborator was allowed to start the test samples. Currently, data is being obtained and reviewed to understand how each laboratory analyzed the practice samples. After review of practice sample data is completed, additional practice samples may need to be analyzed. Continue study.

Aristolochic Acid: Study Coordinator Bill Trujillo. Method selected by ERP is currently undergoing SLV. Continue study.

Terpene Lactones in Ginkgo: Study Coordinator Dean Gray, Midwest Research Institute, 425 Volker Blvd, Kansas City, MO 64110-2299, Tel: 816-753-7600, E-mail: dgray@mrresearch.org. Method selected by ERP is currently undergoing SLV. Continue study.

St. John's Wort: Study Coordinator Steve Baugh, Industrial Labs, 4046 Youngfield St, Wheat Ridge, CO 80033, Tel: 303-287-9691, E-mail: steveb@industrialabs.net. Method selected by 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.