

METHODS COMMITTEE REPORTS

Methods Committee on Dietary Supplements

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Committee Actions

Shauna Roman from Nature's Way has agreed to assume the position of secretary.

Botanicals and Dietary Supplements

Paula Brown, General Referee, British Columbia Institute of Technology, 3700 Willingdon Ave, Burnaby, British Columbia, Canada V3G 3H2; Steve Lunetta, General Referee, Pharmavite LLC, 1150 Aviation Pl, San Fernando, CA 91340

2006.07 *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. Collaborative manuscript has been completed and published in *J. AOAC Int.* **90**, 2007, 43–53. Method was adopted First Action Official Method **2006.07**.

2007.03 *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. The collaborative study *Determination of Campesterol, Stigmasterol, and Beta-Sitosterol in Saw Palmetto Raw Materials and Dietary Supplements by Gas Chromatography*, was completed, and the manuscript was published in *J. AOAC Int.* **90**, 2007, 670–678. Method was adopted for 5 materials as First Action Official Method **2007.03**.

2007.05 *Aristolochic Acid*.—Study Director Bill Trujillo, Covance Laboratories, Madison, WI. Single-laboratory validation (SLV) and collaborative study complete. Method was adopted First Action Official Method **2007.05**.

2008.02 *Aflatoxin and Ochratoxin A in Ginseng and Ginger*.—Study Director Mary Trucksess, U.S. Food and Drug Administration. The SLV was completed and published in *J. AOAC Int.* **90**, 2007, 1042–1049. The collaborative study is complete and was published in *J. AOAC Int.* **91**, 2008, 511–523. Method was adopted First Action Official Method **2008.02**.

2008.03 *Isoflavones*.—Study Director Mark Collision, Archer-Daniels-Midland Co. (ADM), Decatur, IL. A collaborative study of a method for the determination of soy isoflavones in dietary supplements, supplement ingredients, and soy foods by high-performance liquid chromatography with UV detection (HPLC-UV) was completed and published in *J. AOAC Int.* **91**, 2008, 489–500. Method was adopted First Action Official Method **2008.03**.

2008.04 *Goldenseal*.—Study Director Paula Brown. The SLV was completed in 2006. The collaborative study was completed and published in *J. AOAC Int.* **91**, 2008, 694–701. Method was adopted First Action Official Method **2008.04**.

2008.07 *Coenzyme Q10*.—Study Director Mark Roman, Tampa Bay Analytical Research, Safety Harbor, FL, Tel: 727-422-8028, E-mail: mroman@tampabayanalytical.com. Report submitted by Mark Roman. The SLV for the determination of CoQ10 in raw materials and dietary supplements was completed by Eurofins, and the SLV manuscript was accepted for publication by *J. AOAC Int.* The

collaborative study has been completed. Method was adopted First Action Official Method **2008.07**.

2008.11 Aconite.—Study Director Siu-Kay Wong, Hong Kong Government Laboratory. The SLV was published in *J. AOAC Int.* **89**, 2006, 1496–1514. A collaborative study manuscript for quantifying aconite alkaloids in dietary supplements and raw material by HPLC-UV has been completed and was adopted as First Action Official Method **2008.11**.

Aloe Vera Polysaccharides (AVP).—Study Directors Alexis Eberendu and Hellen Oketch-Rabah, Herb Pharm, Williams, OR. The collaborative study for a spectrophotometric method for determining AVP was terminated in the fall of 2006. The study may be reinitiated if reference standards can be obtained and more laboratories can be recruited.

Anthocyanins in Cranberry.—Study Directors Patience Lister, British Columbia Institute of Technology, 3700 Willingdon Ave, Burnaby, British Columbia, Canada V3G 3H2, and Paula Brown. Report submitted by Paula Brown. The SLV for the HPLC-UV analysis of anthocyanins in cranberry raw materials and dietary supplements is under way and near completion.

Chondroitin Sulfate.—Study Directors Mark Roman and David Ji, Analytical Labs in Anaheim, 2951 Saturn St, Suite C, Brea, CA 92821-6206, Tel: 714-524-9988, E-mail: david@analytical-lab.com. The draft collaborative study report has been submitted by Mark Roman. The SLV of the enzymatic HPLC-UV method for determination of chondroitin sulfate in raw materials and dietary supplements was completed and published in *J. AOAC Int.* **90**, 2007, 659–669. The collaborative study is under review by the Methods Committee on Dietary Supplements.

Dimethylsulfoxide (DMSO).—Study Director Mark Roman. The collaborative study for the gas chromatographic-flame ionization detection (GC-FID) method for the determination of DMSO in methylsulfonylmethane (MSM) raw materials is in progress.

Folin Ciocalteau.—Study Director Steven Kupina, Constellation Wines, Madera, CA. The report was submitted by Mark Roman. The SLV is under way for the determination of total polyphenolics in grape seed, grape skin, coffee, cocoa, and black tea extracts. The method incorporates a prototype

reference material containing a number of different polyphenol compounds developed by Dave Luthria at U.S. Department of Agriculture.

Ginsenosides in Ginseng (Panax quinquefolius).—Study Director Paula Brown. The collaborative study has been completed for an HPLC-UV method for analysis of ginsenosides in ginseng raw materials and extracts. The manuscript is being prepared for submission to the Methods Committee on Dietary Supplements for review.

Lutein.—Study Director Tatiana Emmick, Des Moines, IA. An SLV was to be done on a revised method incorporating the recommendations of the lutein/zeaxanthin expert review panel. However, review of the method has resulted in further suggestions of modification due to chromatographic results showing that the method has selection issues.

Lycopene.—Study Director Jayant Deshpandi, OminiActive Health Technologies, India. The collaborative study was completed and is under review by the Methods Committee on Dietary Supplements.

MSM.—Study Director Mark Roman. A collaborative study of the method for determination of MSM raw materials and dietary supplements is in progress.

Omega 3.—Study Director Sandra Diltz, Martek Biosciences, Columbia, MD. The SLV study was begun and initial data was submitted to AOAC.

Oxygen Radical Absorbance Capacity (ORAC).—Study Director, Paula Brown. Method optimization and validation studies are under way.

Polyphenolics in Echinacea sp.—Study Directors Michale Chan, British Columbia Institute of Technology, 3700 Willingdon Ave, Burnaby, British Columbia, Canada V3G 3H2, and Paula Brown. Report submitted by Paula Brown. The SLV for the HPLC-UV analysis of phenolics in *Echinacea* sp. raw materials and dietary supplements is complete. The manuscript is in preparation.

s-Adenosyl methionine (SAM-e).—Study Director Wendy Sorenson. The U.S. Pharmacopeia has passed on the method to Covance Laboratories. Laboratories are currently being recruited for the collaborative study.

Vitamin E.—Study Director, John Austad Covance Laboratories, Madison, WI. Work on, Vitamin E has been delayed due to Covance Laboratories shifting priorities to work on SAM-e.