


The Supplement

Spring Newsletter 2021



Upcoming Events

USP Open Forum
Multi-Ingredient Dietary Supplement Products: Development of Quality Tests
Development of Quality Tests
May 6, 2021 - 10:00am-12:00pm ET
Virtual Meeting



USP Open Forum: Multi-Ingredient Dietary Supplement Products: Development of Quality Tests

May 6, 2021 | Virtual

Let your voice be heard! USP will be hosting a Multi-Ingredient Dietary Supplement Products - Development of Quality Tests Open Forum on Thursday, May 6, 2021 from 10-12 ET. Please join us for this virtual discussion to help contribute to the future of USP standards. [Click here to register](#) – it's free, and advance registration is required.

Many marketed dietary supplement products are not covered by existing monographs due to the broad diversity of possible dietary ingredient combinations. USP's proposed General Chapter <2800> Multi-Ingredient Dietary Supplement Products - Development of Quality Tests is intended to provide guidance on the development of quality tests for assessing adherence to established specifications for multi-ingredient products. The Open Forum is being held by USP to discuss the proposed content of the chapter with stakeholders and learn what additional information might be useful to include in the chapter to improve the quality and relevance of the chapter before it is posted in *Pharmacopeial Forum* for public comment.

Topics to be discussed at the Open Forum include, but are not limited to:

- Development of Identification Tests
- Development of Strength (Assay) Procedures
- Impurities Testing
- Dosage Form Performance Testing

The 6th International qNMR Summit (virtual)

Preliminary dates: October 5-7 2021

A definitive, broadly international event concerning every aspect of qNMR theory and practice, its compendial and industrial implementation, and future development perspectives. Now, virtual and free! Registration details will be available shortly. Please keep an eye on the USP Events Calendar, [pms.summit.com](#), or send an email to Anton Bzhelevsky (anb@usp.org) for further details.

[Dietary Supplements Compendium Online](#)



Designed specifically for manufacturers and analysts in the dietary supplements industry, USP's *Dietary Supplements Compendium (DSC)* is an online resource compiling almost 1,000 of the most relevant public USP standards and auxiliary information from both the *United States Pharmacopoeia - National Formulary (USP-NF)*, and the *Food Chemicals Codex (FCC)*, along with exclusive supplemental information, images and data.

The second annual update to the *USP Dietary Supplements Compendium (DSC) Online* will be available this summer. New monographs, admission evaluation summaries, illustrations with chromatograms, chemical structures and photomicrographs are being added to further enhance the user experience and improve understanding of compendial analysis.

New illustrations include those for:

- Pyroloquinoline Quinone (PQQ) Disodium Salt
- *Terminalia chebula* Fruit
- Bitter Orange Flavonoids Dry Extract
- D-chiro-Inositol, Citicoline
- Calcium Magnesium Citrate

As always, we invite you to provide feedback and help us prioritize the work for upcoming DSC Online editions. Please direct your comments to Anton Bzhelevsky (anb@usp.org). DSC Online continues to provide in-depth, comprehensive information for all phases of development and manufacturing of quality dietary supplements including quality control, quality assurance, and regulatory/compendial affairs.

For more information or to order a DSC Online subscription for only \$150 per year, please [click here](#).

[Publications in Peer-reviewed Journals](#)

Open Access

NMR-Based Quantum Mechanical Analysis Builds Trust and Orthogonality in Structural Analysis: The Case of a Bisdiosmotic Triglycoside as *Withania somnifera* Aerial Parts Marker
Sitaram Bhavaraaj, David Taylor, Matthias Niemitz, David C. Larkin, Anton Bzhelevsky, Gabriel I. Giancaspro, Yang Liu, and Guido F. Pauli*
Publication Date: February 24, 2021

View the publication in the *Journal of Natural Products* [here](#).

Past Events

USP Elderberry Standards Development Forum
January 22, 2021



An Open Forum about Elderberry Standards Development was hosted by USP on January 22, 2021. More than 100 participants attended the virtual event, where they provided their input, perspectives, and feedback about issues involving quality standards for Elderberry. Main topics discussed included: Adulteration concerns, taxonomy for different species, manufacturing processes, ingredient specifications and testing methodologies.

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Products & Services

New Dietary Supplements Reference Standards

Herbal Medicines/ Botanical Dietary Supplements

- [Paeoniflora](#)
- [Rauvolfia scabra](#) Seed Oil
- [Rauvolfia scabra](#) Root Dry Extract
- [Jujube A](#)
- [Cullen cordifolium](#) Fruit Dry Extract
- [Erythra](#)
- [Marmelosin](#)

Reference Standards in development:

Botanicals:

- Aegle marmelos Fruit Dry Extract
- Angelica sinensis Root Powder
- *Azadirachta indica* Seed Oil
- *Azadirachta indica* Leaf Dry Extract
- Broccoli Seed Dry Extract
- Black Cumin Seed Thymoquinone Oil
- Carvacrol
- *Chrysanthemum indicum* Flower Dry Extract
- *Chrysanthemum x morifolium* Flower Dry Extract
- Cranberry Fruit Juice Dry Extract
- 4-gingerone
- 4-gingerone Carbon Dioxide Soft Extract
- Glucoraphanin
- Isochlorogenic Acid A
- *Ligusticum chuankiang* Rhizome Powder
- Linalin
- Pomegranate Fruit Dry Extract
- Procyanidin A2
- Punicic acid
- Serrulyin
- 2-Ligustilide
- Cimifugin
- 5-O-Methylxanthin
- Saposhnikovia divaricata Root Dry Extract
- Dextrose
- Malic Acid
- Aloeverose
- Alanin B

Non-Botanicals:

- Choline Citrate
- Hydroxocobalamin Chloride
- Inositol Nicotinate
- L-Ornithine Hydrochloride
- Lysine
- Palm Oil Tocotrienols and Tocopherols
- N-Acetylmethionine

Monographs

Standards Open for Public Comment until May 31, 2021

The standards below were published in PF 47 (3) for public comment on March 1, 2021 and will accept public feedback until May 31, 2021. To comment, please visit [Pharmacopeial Forum](#).

New Monographs/General Chapters:

- Sichuan Lovage Rhizome Powder
- Sichuan Lovage Rhizome Powder
- Cranberry Fruit Dry Juice
- *Lactobacillus acidophilus*

Revised Monographs/General Chapters:

- *Lactobacillus paracasei* LCP-37

Omissions:

- *Lactobacillus acidophilus* NCFM
- *Lactobacillus acidophilus* Ls-14

Standards to be published in PF 47 (3)

The standards below will be published in PF 47 (3) on May 1, 2021 and public feedback will be accepted until July 31, 2021. To comment, please visit [Pharmacopeial Forum](#).

New Monographs/General Chapters:

- Dong Quai Root
- Cranberry Fruit Juice Dry Extract Capsules
- *Streptococcus thermophilus*
- *Ligilactobacillus salivarius*
- *Lactiplantibacillus plantarum*

Revised Monographs/General Chapters:

- Fish Oil Containing Omega-3 Acids Capsules
- Fish Oil Containing Omega-3 Acids Delayed-Release Capsules
- Fish Oil Containing Omega-3 Acids
- Krill Oil Capsules
- Krill Oil Delayed-Release Capsules
- Omega-3 Acids Triglycerides
- Fish Oil Omega-3 Acid Ethyl Esters Concentrate
- Krill Oil
- Omega-3 Free Fatty Acids
- Omega-3-Acid Ethyl Esters
- Calcium Ascorbate
- Conjugated Linoleic Acid – Free Fatty Acids
- Dexamphenol Preparation

New Monographs/Under Development:

Botanicals:

- Bitter Orange Young Fruit Powder
- Bitter Orange Young Fruit Powder
- Black Cumin Seed Oil Thymoquinone Cassia Bark
- *Cinnamomum cassia* Bark Powder
- *Cinnamomum verum* Bark Powder
- *Cinnamomum verum* Bark Powder
- *Coptis chinensis* Rhizome Aqueous Dry Extract
- Elder Berry Juice (American and European)
- Elder Berry Juice Concentrate (American and European)
- Elder Berry Dry Juice (American and European)
- Elder Berry Liquid Extract (American and European)
- Elder Berry Aqueous Dry Extract (American and European)
- Elder Berry Fruit Powder (American and European)
- Feverfew Leaf Extract
- Gastrodia rhizome
- Gastrodia rhizome Powder
- Gastrodia rhizome Dry Extract
- Green Tea Leaf Dry Extract
- *Inula racemosa* Root Powder
- *Inula racemosa* Root Dry Extract
- *Inula racemosa* Root Dry Extract
- Maca Root Powder
- Maca Root Gelatinized Powder
- Maca Root Extract
- Neem Leaf
- Neem Leaf Powder
- Neem Leaf Dry Extract
- Red Clover Tablets
- Red Yeast Rice Powder
- Red Yeast Rice Powder

Non-Botanicals:

- Apigenin
- Astaxanthin Biomass
- beta-Hydroxy-beta-methylbutyric acid (HMB)
- *Bacillus subtilis*
- Bromelain
- Calcium beta-hydroxy-beta-methylbutyrate (Ca-HMB)
- GABA
- Hydrolyzed Collagen
- Hydrolyzed Keratin
- Inositol Nicotinate
- Levocarnitine Tartrate
- Lutein Esters
- Lysine
- Mineral Ascorbates
- Mineral Bisglycates
- Native Collagen
- Oil-soluble Vitamins Preparation
- Pea Protein
- Phosphatidylserine
- Phytosterol Esters
- Plant sterols
- Rice protein
- Salmon oil (farmed and wild)
- *Streptococcus thermophilus*
- Soy Protein
- Zeaxanthin Preparation

New General Chapters/Under Development:

- <582> Water-Soluble Vitamins Assay by Liquid Chromatography—Mass Spectrometry
- <2800> Multi-Ingredient Dietary Supplement Products - Development of Quality Tests
- <1567> Pyrrolizidine Alkaloids as Contaminants
- <567> Analysis of Contaminant Pyrrolizidine Alkaloids

[Find a Reference Standard](#)

[Submit a Reference Standard](#)

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