TO: Joint Committee for Dietary Supplements

FROM: Brian Zamora, Chair of the Joint Committee

DATE: March 3, 2020

SUBJECT: Proposed revision to NSF/ANSI 173 – Dietary Supplements (173i90r2)

Revision 2 of NSF/ANSI 173, issue 90 – Definitions is being forwarded to the Joint Committee for consideration. Please review the proposal and submit your ballot by March 24, 2020 via the NSF Online Workspace <www.standards.nsf.org>.

When adding comments, please use the comment template provided in the ballot and upload it online via the browse function.

Purpose

The proposed revision will add definitions to the standard.

Background

Revision 2 Update:

During the first ballot for this issue paper, comments were provided asking for clarification on definitions. As such, the following items have been edited/updated:

- Added clarification to background section
- Measurement uncertainty definition
  - Removed definition as it is already incorporated in NSF/ANSI 173
- Dry weight basis definition
  - Re-organized text
  - Edited text
- Synthesized compounds definition
  - Edited text

Background:

This issue paper has been prepared by the NSF International Toxicology Services department to document an addition to NSF/ANSI 173 (2018).

During the Hemp Task Group, new definitions were proposed for the standard that are not exclusive to hemp. Thus, an additional issue paper was created. These definitions are intended to add clarity to the standard for all dietary ingredients and/or finished products and were generated in consultation with the hemp task group.
Although the definitions for artificial compounds, nature identical compounds and synthesized compounds are not currently mentioned in NSF/ANSI 173, the task group determined that defining these terms was important as these definitions aided in developing clear policies and procedures with respect to such materials. Defining these terms is necessary as these types of compounds may pose additional legal/regulatory issues compared to other materials.

The definition for dry weight basis has been added to clarify its use as referenced in NSF/ANSI 173.

Please see the recommendations section for the suggested text to be added to 3.X.

**Public Health Impact**

The new standard intends to have a positive impact on public health.

If you have any questions about the technical content of the ballot, you may contact me in care of:

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Chair, Joint Committee for Dietary Supplements  
c/o Rachel Brooker  
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3 Definitions

3.X artificial compounds: compounds whose molecular structure is not found in nature.

3.X dry weight basis: a basis for expressing the measurement results for a substance in a material after subtracting the moisture content from the mass of the material, e.g. 1 gram of a material that has a moisture content of 10% would have a dry weight of 0.9 grams as determined using the equation:

\[ C_{\text{dry}} = C_{\text{wet}} \times \frac{100}{100 - \text{moisture}} \]

3.X nature-identical compounds: compounds identical to those found in nature with respect to structure and stereochemistry, regardless of their means of production.

3.X synthesized compounds: For purposes of this standard, compounds synthesized in the laboratory or by industry. They may be nature identical or artificial since this definition refers only to the process of their creation.

Rationale: Adding definitions to the standard.