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Joint Committee on Dietary Supplements

November 5, 2024

Proposed revision to NSF/ANSI 173 – Dietary Supplements (173i116r2)

Revision 2 of NSF/ANSI 173, issue 116 is being forwarded to the Joint Committee for consideration. Please review the proposal and **submit your ballot by November 19, 2024** via the NSF Online Workspace.

Please review all ballot materials. When adding comments, please include the section number applicable to your comment and add all comments under one comment number whenever possible. If you need additional space, please use the attached blank comment template in the reference documents and upload online via the browse function.

Purpose

The proposed is to correct the dry weight definition to match the calculation.

Background

R1 was balloted and received one negative vote. See comment below. After discussion between the commenter and the issue proponent they agreed on this revision.

The *formula* in the current standard is a mathematically correct way to calculate *the concentration of an analyte on the dry weight basis*. However, the *text* in the current standard describes the calculation of *the dry weight*.

Comment: When correcting for moisture in a product, the test result on the dry weight basis should be *higher* than the test result on the wet basis (because the analyte is more concentrated when water is removed than when water is present).
For example: If a material tests at 10% marker on the as is (wet) basis, and it contains 10% moisture, then the marker should be 11% on the dry weight basis.
(In other words: for every 100 g of "wet material" there will be 10 g of moisture and 10 g of marker. If you remove the moisture then you have 10 g of marker in 90 g of "dry material" which means the marker % in the dry material is 10/90*100 = 11%.)
The proposed formula gives a result of 9% marker, which is incorrect.*

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 on Dietary Supplements

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[Note – the recommended changes to the standard which include the current text of the relevant section(s) indicate deletions by use of ~~strikeout~~ and additions by grey highlighting. Rationale Statements are in *italics* and only used to add clarity; these statements will NOT be in the finished publication.]

NSF/ANSI Standard
for Health Sciences –

Dietary Supplements

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3 Definitions

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3.13 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 g of a material that has a moisture content of 10% would have a dry weight of 0.9 g as~~ The dry weight basis ~~determined~~ is calculated from the measurement results using the equation:

$$C_{dry} = C_{wet} \times \frac{100}{100 - moisture}$$

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