



Barley heart health claim facts

Overview

The U.S. Food and Drug Administration (FDA) authorized use of a health claim for the role of beta-glucan soluble fiber from barley in reducing the risk of coronary heart disease. The FDA amended CFR 101.81, the regulation authorizing a health claim on the relationship between oat beta-glucan soluble fiber and reduced risk of coronary heart disease to include barley as an additional eligible source of beta-glucan soluble fiber. The FDA concluded that, based on the totality of publicly available scientific evidence, in addition to certain oat products, whole grain barley and certain dry milled barley grain products are appropriate sources of beta-glucan soluble fiber for the health claim. A final rule was published in the Federal Register on May 22, 2006. The ruling is in response to a petition submitted by the National Barley Foods Council in 2004.

Sample claim

Following is an example of the health claim that may be used:

Soluble fiber from foods such as [name of food], as part of a diet low in saturated fat and cholesterol, may reduce the risk of heart disease. A serving of [name of food] supplies [x] grams of the soluble fiber necessary per day to have this effect.

Note: Health claim CFR 101.81 is based on eating 3 grams of beta-glucan soluble fiber daily.

What barley products qualify as eligible beta-glucan soluble fiber sources?

- Whole grain barley
- Barley bran
- Barley flakes
- Barley flour
- Barley grits
- Barley meal
- Pearl barley
- Sieved barley meal

Does the FDA specify fiber content of the qualifying barley sources?

Yes. Dehulled and hullless whole grain barley must have a total dietary fiber content of at least 10% on a dry weight basis (dwb) and a beta-glucan soluble fiber content of at least 4% dwb. Barley flakes, barley grits, pearl barley, barley flour and barley meal must have a total dietary fiber content of at least 8% dwb and a beta-glucan soluble fiber content of at least 4% dwb. Barley bran and sieved barley meal must have a total dietary fiber content of at least 15% dwb and a beta-glucan soluble fiber content of at least 5.5% dwb.

Does the FDA include any processing specifications for the qualifying barley beta-glucan soluble fiber sources?

Yes. Qualifying barley products must be produced from clean, sound dehulled or hullless barley using standard dry milling techniques.

Is barley bran made from the malting process or distillers dried grains (DDGs) eligible for the claim?

No. Considerable water is used in the processing and is therefore not considered dry milling, so this product is not currently eligible.

What about barley malt flour? Is it eligible for the claim?

No. The malting process causes beta-glucans to break down, so barley malt flour is not currently eligible for the claim.

How does a food made from eligible barley sources qualify for the claim?

A food made from eligible barley sources must contain at least 0.75 grams of beta-glucan soluble fiber per serving. Health claim CFR 101.81 is based on eating a total of 3 grams of beta-glucan soluble fiber daily.

How much beta-glucan soluble fiber is found in typical barley products such as pearl barley or barley flakes?

The beta-glucan soluble fiber content of barley can vary somewhat, depending on the type or class of barley used for human food. As a general estimate, one-fourth cup of uncooked pearl barley contains approximately 2.5 grams beta-glucan soluble fiber. (One-fourth cup of uncooked pearl barley yields approximately 3/4 to 1 cup of cooked pearl barley.) One-half cup of uncooked barley flakes contains approximately 2 grams beta-glucan soluble fiber.

Note: The beta-glucan soluble fiber figures provided here are averages only. Be sure to check package labels for soluble fiber content of specific barley products.

Where can I obtain more information about the final ruling?

For a full transcript of the FDA's final ruling, see the Federal Register of Monday, May 22, 2006 (Volume 71, Number 98, Pages 29248-29250) or go to www.accessdata.fda.gov. Search by Docket No. 2004P-0512.