

New canary seed is ideal for gluten-free diets in celiac disease

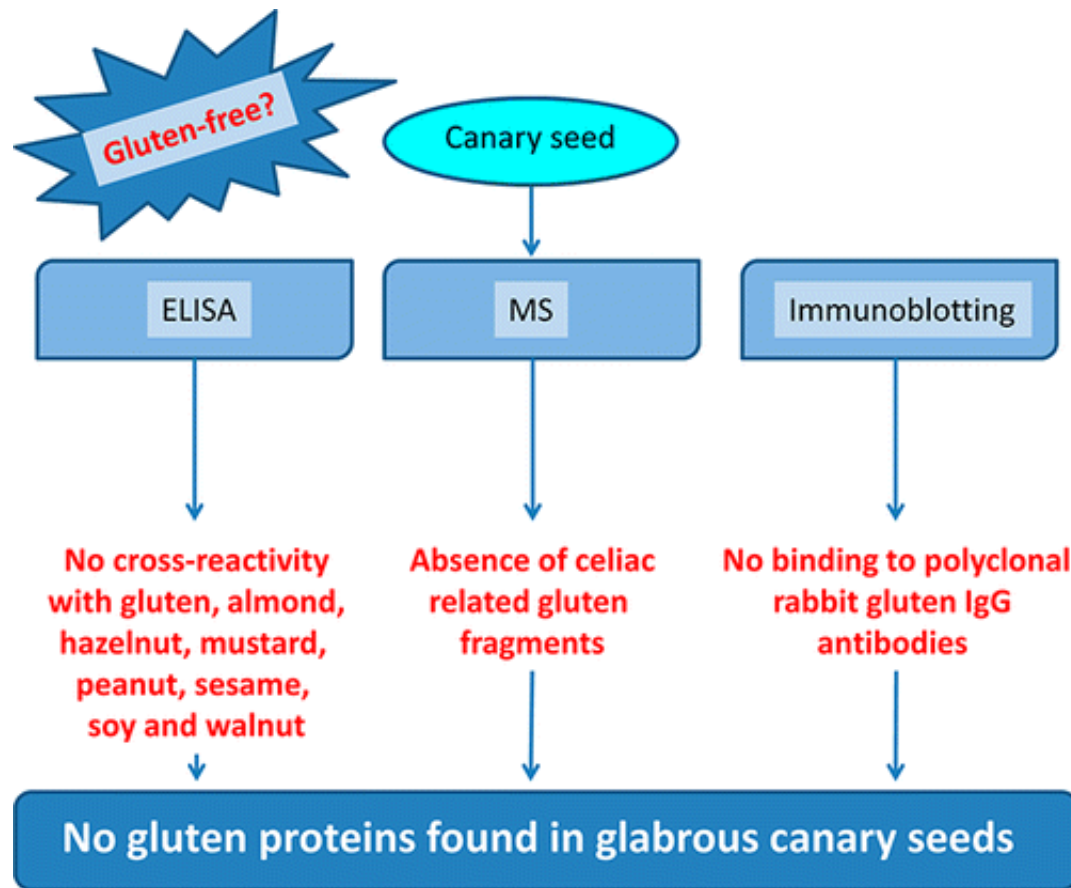
June 19 2013



A new variety of canary seeds bred specifically for human consumption qualify as a gluten-free cereal that would be ideal for people with celiac disease. Credit: Steve Hurst, USDA-NRCS PLANTS Database

A new variety of canary seeds bred specifically for human consumption qualifies as a gluten-free cereal that would be ideal for people with celiac disease (CD), scientists have confirmed in a study published in *ACS' Journal of Agricultural and Food Chemistry*.

Joyce Irene Boye and colleagues point out that at least 3 million people in the United States alone have CD. They develop gastrointestinal and other symptoms from eating wheat, barley, rye and other grains that contain gluten-related proteins. Boye's team sought to expand dietary options for CD—which now include non-gluten-containing cereals like corn, rice, teff, quinoa, millet, buckwheat and sorghum.



They describe research on a new variety of "hairless," or glabrous, canary seed, which lacks the [tiny hairs](#) of the seed traditionally produced as food for caged birds. Those hairs made canary seed inedible for humans. It verified that canary seed is gluten-free. Boye also noted that canary seeds have more protein than other common cereals, are rich in other nutrients and are suitable for making flour that can be used in bread, cookies, cakes and other products.

More information: Boye, J. Analysis of Glabrous Canary Seeds by ELISA, Mass Spectrometry and Western Blotting for the Absence of Cross-reactivity with Major Plant Food Allergens, *Journal of Agriculture*

and Food Chemistry. [DOI: 10.1021/jf305500t](https://doi.org/10.1021/jf305500t)

Provided by American Chemical Society

Citation: New canary seed is ideal for gluten-free diets in celiac disease (2013, June 19) retrieved 19 May 2024 from <https://phys.org/news/2013-06-canary-seed-ideal-gluten-free-diets.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.