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Notice of modification to the *List of permitted food enzymes* to enable the use of glucose oxidase from *Saccharomyces cerevisiae* LALL-GO in bread, flour, whole wheat flour and unstandardized bakery products

Notice of Modification – Lists of Permitted Food Additives Reference Number: M-FAA-24-02 March 22, 2024

Background

Food additives are regulated in Canada under <u>Marketing</u> <u>Authorizations</u> (MAs) issued by the Minister of Health and the *Food and Drug Regulations* (Regulations). Authorized food additives and their permitted conditions of use are set out in the <u>Lists of Permitted Food</u> <u>Additives</u> that are incorporated by reference in the MAs and published on the Canada.ca website. A petitioner can request that Health Canada authorize a new additive, or a new source or a new condition of use for an already permitted food additive by filing a food additive submission with the Department's Food Directorate. Health Canada uses this premarket authorization process to determine whether the scientific data support the safety of food additives when used under specified conditions in foods sold in Canada.

Issue

Health Canada's Food Directorate received a food additive submission seeking authorization for the use of glucose oxidase from *Saccharomyces cerevisiae* LALL-GO in bread, flour, whole wheat flour, and unstandardized bakery products. The requested maximum level of use for this food enzyme is Good Manufacturing Practice.

At the time the petitioner filed the submission, glucose oxidase from certain other sources was permitted for use in the same foods requested by the petitioner, and there were two other strains of *S. cerevisiae* each of which was a permitted source for another food enzyme (α -Amylase (maltogenic) and Lipase, respectively). However, the petitioner's strain *S. cerevisiae* LALL-GO was not permitted as a source for any food enzyme in Canada.

Rationale for action

Health Canada's Food Directorate completed a premarket safety assessment of glucose oxidase from *Saccharomyces cerevisiae* LALL-GO for use as a food enzyme in bread, flour, whole wheat flour and unstandardized bakery products. The Directorate considered allergenicity, chemistry, microbiology, molecular biology, nutrition, and toxicology in the assessment.

The results of the assessment support the safety of glucose oxidase from *S. cerevisiae* LALL-GO for its requested use. Therefore, Health Canada has modified the *List of Permitted Food Enzymes* to authorize the use of glucose oxidase from *S. cerevisiae* LALL-GO by adding the new source

organism *Saccharomyces cerevisiae* LALL-GO to column 2 of item G.3, following the existing permitted source organism *Aspergillus niger* ZGL528-72, as shown below (in bold in this Notice to illustrate the addition). For the definition of "Good Manufacturing Practice" set out in column 4 as a Maximum Level of Use, see the *Marketing Authorization for Food Additives That May Be Used as Food Enzymes*.

Modification to the List of Permitted Food Enzymes

Item No.	Column 1 Additive	Column 2 Permitted Source	Column 3 Permitted in or Upon	Column 4 Maximum Level of Use and Other Conditions
G.3	<mark>Glucose</mark>	Aspergillusniger	(1)	(1)
	<mark>oxidase</mark>	ZGL528-72;	<mark>Bread; Flour;</mark>	<mark>Good</mark>
		Saccharomyces	<mark>Whole wheat</mark>	Manufacturing
		<mark>cerevisiae LALL-</mark>	<mark>flou</mark> r	Practice
		GO	(2)	(2)
			Unstandardized	<mark>Good</mark>
			bakery products	Manufacturing
				Practice

Other relevant information

Food additives such as glucose oxidase are required to meet food-grade specifications set out in Part B of the Regulations, where such specifications exist, or those set out in the most recent edition of the *Food Chemicals Codex* or the *Combined Compendium of Food Additive Specifications* where there are no specifications in Part B. The *Food Chemicals Codex* is a compendium of food-grade specifications for food ingredients, including food additives, published by the United States Pharmacopeial Convention. Specifications in the *Combined Compendium* of Food Additive Specifications and its associated General Specifications and Considerations for Enzyme Preparations are prepared by the Joint FAO/WHO Expert Committee on Food Additives (JECFA), both of which are published by the Food and Agriculture Organization of the United Nations.

Implementation and enforcement

The above modification came into force **March 21, 2024**, the day it was published in the *List of Permitted Food Enzymes*.

The Canadian Food Inspection Agency is responsible for the enforcement of the *Food and Drugs Act* and its associated regulations with respect to foods.

Contact information

Health Canada's Food Directorate is committed to reviewing new scientific information on the safety in use of any permitted food additive. Anyone wishing to submit an inquiry or new scientific information on the use of a permitted food additive may do so in writing, by regular mail or e-mail. If you wish to contact the Food Directorate by e-mail about glucose oxidase from *S. cerevisiae* LALL-GO, please use the words "**glucose oxidase (M-FAA-24-02)**" in the subject line of your e-mail.

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