
Professional Certificate in Food Chemistry

Food Labeling and Claims

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Food labeling and claims are essential components of the food industry, providing consumers with valuable information about the products they purchase. This glossary aims to define key terms related to food labeling and claims to enhance your understanding in the field of food chemistry.

1. Allergen

An allergen is a substance that can trigger an allergic reaction in some individuals. Common food allergens include peanuts, tree nuts, milk, eggs, soy, wheat, fish, and shellfish. Food labels must clearly identify the presence of allergens to help consumers with allergies avoid potential risks.

2. Daily Value (DV)

The Daily Value is a reference value set by regulatory authorities, such as the FDA, to help consumers understand the nutrient content of a food product in the context of a daily diet. Daily Values are typically based on a 2,000-calorie diet and are listed on food labels as a percentage (% DV).

3. Expiration Date

The expiration date, also known as the expiry date, indicates the date by which a food product should be consumed for optimal quality and safety. It is determined based on the product's shelf life and storage conditions. Consuming a product past its expiration date may pose health risks.

4. Fortified

Fortified foods are products that have been enriched with additional nutrients that were not originally present in significant amounts. For example, milk may be fortified with vitamin D to enhance its nutritional value. Fortification aims to address nutrient deficiencies in the population.

5. Gluten-Free

Gluten-free products do not contain gluten, a protein found in wheat, barley, and rye that can cause adverse reactions in individuals with celiac disease or gluten sensitivity. Food labels marked as gluten-free help consumers make informed choices about their dietary needs.

6. Health Claim

A health claim is a statement on a food label that suggests a relationship between a food or nutrient and a reduced risk of a specific health condition. Health claims are regulated by authorities to ensure scientific substantiation and accurate representation to consumers.

7. Ingredient List

The ingredient list on a food label provides a detailed inventory of all the components used in the product, listed in descending order by weight. Consumers can use the ingredient list to identify allergens, additives, preservatives, and other substances present in the food.

8. Organic

Organic food products are grown and processed without synthetic pesticides, fertilizers, genetically modified organisms (GMOs), or irradiation. Organic certification ensures that the product meets specific standards set by regulatory bodies to promote environmentally friendly practices.

9. Serving Size

The serving size on a food label represents the recommended portion of the product that consumers should consume. It is standardized to facilitate accurate comparison of nutrient content across different products. Understanding serving sizes helps individuals manage their calorie and nutrient intake.

10. Trans Fat

Trans fat is a type of unsaturated fat that can raise levels of "bad" cholesterol (LDL) and increase the risk of heart disease. Food labels are required to disclose the amount of trans fat per serving to help consumers make healthier choices and reduce their intake of this harmful fat.

11. USDA Organic

The USDA Organic seal is a certification mark issued by the United States Department of Agriculture (USDA) to indicate that a food product meets the rigorous organic farming and processing standards established by the National Organic Program (NOP). The USDA Organic seal assures consumers of the product's organic integrity.

12. Value-Added Claims

Value-added claims on food labels highlight specific attributes or benefits of a product beyond basic nutrition. Examples of value-added claims include "high in fiber," "good source of protein," or "low sodium." These claims help consumers make informed choices based on their preferences and dietary needs.

13. Whole Grain

Whole grain foods contain all parts of the grain, including the bran, germ, and endosperm, providing essential nutrients like fiber, vitamins, and minerals. Food labels that feature the Whole Grain Stamp indicate the product meets the criteria for whole grain content, helping consumers identify healthier options.

14. Xylitol

Xylitol is a sugar alcohol commonly used as a low-calorie sweetener in sugar-free products like chewing gum, candies, and baked goods. Xylitol provides sweetness without raising blood sugar levels and has dental benefits, making it a popular choice for individuals with diabetes or those seeking oral health benefits.

15. Zero Calorie

Zero-calorie foods or beverages contain negligible calories per serving, typically less than five calories. These products are often artificially sweetened to provide sweetness without adding significant energy. Zero-calorie labels appeal to individuals seeking to reduce calorie intake or manage weight.

By familiarizing yourself with these key terms related to food labeling and claims, you can navigate the complex landscape of food products with confidence and make informed choices to support your health and well-being. Understanding the implications of allergens, nutrient content, organic certification, and value-added claims empowers you to select foods that align with your dietary preferences and goals. Stay informed, read food labels carefully, and enjoy a balanced and nutritious diet tailored to your individual needs.