ESHA Research

ESHA Research was established in 1981 as one of the very first nutrition software solutions. Today, ESHA's suite of nutritional software products, services, and databases are recognized as the industry's top choice for food and supplement formulation, recipe development, labeling, nutritional analysis, and regulatory compliance.

ESHA Solutions
- Genesis R&D® Food Formulation
- Genesis R&D® Supplement Formulation
- Food Processor® Nutrition & Diet Analysis
- Consulting Services

Our mission is to help remove the complexity of product development and regulatory compliance for the food, beverage, and supplement industries through software, services, and nutritional databases.

Genesis R&D Foods

Genesis R&D Foods, first released in 1991, is designed to help users manage processes, overcome industry challenges, and meet federal requirements. Industry professionals use Genesis R&D for quick and accurate nutrient evaluation, virtual product development, nutrition labeling, and regulatory compliance.

- Product Development
- Formulation Analysis
- Menu Analysis
- Reporting
- Regulatory Compliance

Upcoming Webinars

June 9, 2021 | Working with Serving Sizes

The FDA requires that the serving size on your Nutrition Facts label be shown as a common household measure suitable for the food and based on the amount of that food typically consumed. The FDA has defined and catalogued these amounts as RACCs (Reference Amounts Customarily Consumed). In this webinar, we will demonstrate how to enter serving size information in Genesis R&D and work with serving information on your labels.

To view archived webinars or sign up to receive notifications, visit:
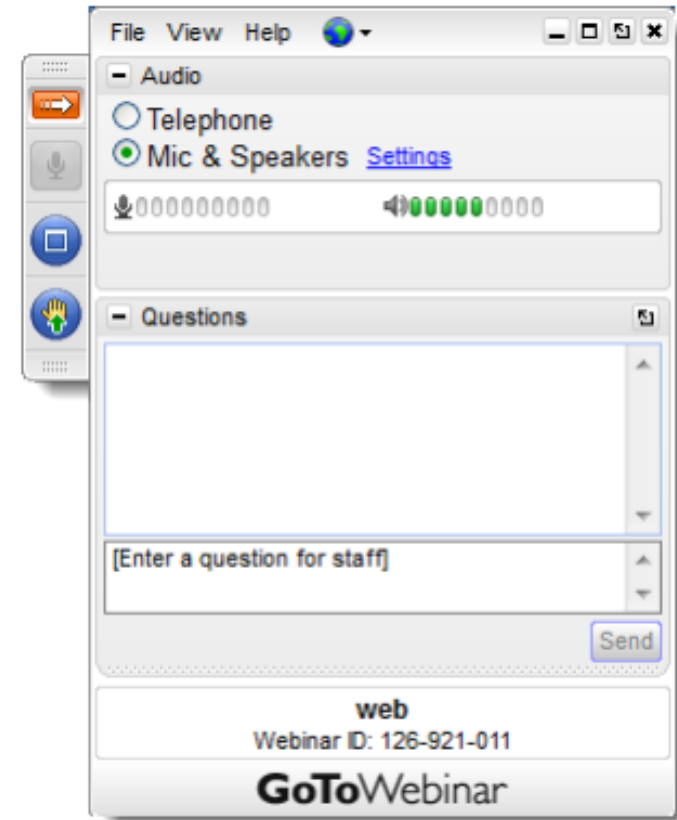
www.esha.com/news-events/webinars

Please Note!

✓The webinar is being recorded

✓All webinars available on our website

✓Submit your questions in the GoToWebinar control panel

✓We'll email a copy of the recording and the slides following the webinar

What We'll Cover Today

- UI Changes in Edit Label Settings
- Additional Canada Label Formats
  - Standard Narrow
  - Simplified Single-serving Prepacked Foods
- Genesis R&D API Updates
- Q&A

Edit Label Settings

Edit Label selections in the General tab renamed:

Version 11.9

Version 11.10

Which Label to Use?

CFIA reference
Steps for Choosing a Nutrition Facts Label

- Step 1: Measure the available display surface (ADS) of your package

- Step 2: Choose a Nutrition Facts table format family

- Step 3: Choose the appropriate Nutrition Facts table using decision trees

Table: Which Nutrition Facts table format family should I use?

Format	May be used for	Must be used for	Example(s)
Standard/ Horizontal/ Linear Formats [B.01.454, FDR]	• most foods (for example, carton of milk, prepackaged loaf of white bread) • prepackaged product containing an assortment of similar foods, where a serving consists of more than one food (for example, box of chocolates, tray of mixed nuts), declared as a single composite value [B.01.406(4), FDR]	• prepackaged product containing an assortment of similar foods, where 1) serving consists of only one of the foods, and 2) information for serving size, energy and core nutrients is the same for all individual items (for example, multi-pack of frozen popsicles) [B.01.406(3)(b), FDR].	• multi-pack of frozen popsicles • prepackaged loaf of white bread • carton of milk • tray of mixed nuts • box of assorted chocolates
Simplified Formats [B.01.455, FDR]	• foods whose nutrient value is "0", as reported in the NFt, for 6 or more of the Calories and core nutrients [B.01.401(6), FDR]	N/A (always optional)	• some jams/jellies • fruit flavoured drinks • drink mix powders • diet soft drinks
Simplified Formats — Single-serving Prepackaged Products [B.01.455.1, FDR]	• products meeting the definition of single-serving prepackaged product [B.01.001(1), FDR], other than a prepackaged meal.	N/A (always optional)	• snack foods such as chocolate bars, chewy granola bars

https://inspection.canada.ca/food-label-requirements/labelling/industry/nutrition-labelling/nutrition-facts-table-formats/eng/1389209684841/1389210023155?chap=2

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New Label Templates for the Canada Label Module

- Standard Narrow

- Simplified – Single-serving Prepackaged Products
  - Standard
  - Tabular
  - Linear

Canadian Standard Narrow

- Narrow label format to accommodate smaller packages or shapes

- Recommendation Profiles
  - Adult
  - Child 1 – 3
  - Infant

- One language

Nutrition Facts	
Per 1 pouch (90 g)	
Calories 40	% Daily Value*
Fat 0.1 g	1 %
Saturated 0 g + Trans 0 g	0 %
Carbohydrate 10 g	
Fibre 1 g	7 %
Sugars 8 g	16 %
Protein 0.2 g	
Cholesterol 0 mg	
Sodium 2 mg	1 %
Potassium 75 mg	3 %
Calcium 0 mg	0 %
Iron 0.2 mg	3 %

* 5% or less is **a little**, 15% or more is **a lot**

Simplified Single-serving Prepackaged Products Label CFIA Regulations Overview

- Prepackaged products must meet the single-serving criteria to use this format
  - Package contains <200% of the reference amount
    - OR –
  - Quantity of food in the package can reasonably be consumed by one person at a single eating occasion

- Required Nutrients
  - Calories
  - Fat
  - Carbohydrates
  - Protein

Additional Nutrients

- Sat Fat + Trans Fat
- Sugar
- Sodium

- Language: must be bilingual on vertical and tabular

Nutrition Facts
Valeur nutritive
Per 1 carton (237 mL)
pour 1 brique (237 mL)

Calories 180	% Daily Value *
	% valeur quotidienne *
Fat / Lipides 5 g	7 %
Saturated / saturés 3 g + Trans / trans 0.2 g	16 %
Carbohydrate / Glucides 25 g	
Sugars / Sucres 24 g	24 %

Nutrition Facts
Valeur nutritive
Per 1 carton (237 mL)
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Calories 180

	% Daily Value*
	% valeur quotidienne*
Fat / Lipides 5 g	7 %
Saturated / saturés 3 g + Trans / trans 0.2 g	16 %
Carbohydrate / Glucides 25 g	
Sugars / Sucres 24 g	24 %
Protein / Protéines 8 g	
Sodium 140 mg	6 %

* 5% or less is a little, 15% or more

Nutrition Facts Per 1 carton (237 mL) : **Calories 180**
Fat 5 g (7 %), **Saturated** 3 g + **Trans** 0.2 g (16 %), **Carbohydrate** 25 g, **Sugars** 24 g (24 %), **Protein** 8 g, **Sodium** 140 mg (6 %).
% = % Daily Value*   * 5% or less is **a little**, 15% or more is **a lot**

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Simplified Single-serving Prepackaged Products Label Settings in Genesis R&D

- Set to bilingual as required – "show bilingual" edit label option will not affect the label

- If nutrient value is greater than insignificant, it will show.
  - If zero, will default to omit, but you can show; select "show if insignificant"
  - If making claims, then choose to show the nutrient
  - Does not show an "insignificant" footnote like the standard simplified label

Nutrition Facts
Valeur nutritive
Per 1 carton (237 mL)
pour 1 brique (237 mL)

Calories 180 | % Daily Value *
% valeur quotidienne *

Fat / Lipides 5 g | 7 %
Saturated / saturés 3 g | 16 %
+ Trans / trans 0.2 g

Carbohydrate / Glucides 25 g | 24 %

Nutrition Facts
Valeur nutritive
Per 1 carton (237 mL)
pour 1 brique (237 mL)

Calories 180

Fat / Lipides 5 g | 7 %
Saturated / saturés 3 g | 16 %
+ Trans / trans 0.2 g

Carbohydrate / Glucides 25 g | % Daily Value*
% valeur quotidienne*

Sugars / Sucres 24 g | 24 %

Protein / Protéines 8 g

Sodium 140 mg | 6 %

* 5% or less is a little, 15% or more is a lot / * 5% ou moins c'est peu, 15% ou plus c'est beaucoup

Nutrition Facts Per 1 carton (237 mL) : **Calories 180**
Fat 5 g (7 %), **Saturated** 3 g + **Trans** 0.2 g (16 %), **Carbohydrate** 25 g,
Sugars 24 g (24 %), **Protein** 8 g, **Sodium** 140 mg (6 %).
% = % Daily Value*   * 5% or less is **a little**, 15% or more is **a lot**

Additional Canadian Settings Adjusted

- Standard Simplified Label - can display insignificant nutrients if desired

- Tabular – displays as bilingual

- Linear – displays as unilingual

Genesis R&D API

WHAT IS IT?

- An Application Programming Interface (API) is an interface that defines interactions between multiple software applications
- In short, it's what allows integration, or data exchange, between Genesis R&D and other platforms such as a web page or another business software tool that you use.

HOW DOES IT WORK?

- A programmer sends a *request* to a Genesis R&D API *endpoint that "asks"* for data (Recipe Nutrition Analysis, Nutrition Facts Label, etc.)
- You get a *response* from the Genesis R&D API *endpoint* that contains the data you asked for
- This is done to synchronize or information in Genesis to your other tools and automate otherwise manual processes for improved efficiency.

Genesis R&D API - Updates

New Endpoints Available for the API Include:

- Nutrition Facts Templates Label Modules
  - US Label Module: 2016 Label Formats
  - Canada Label Module: 2016 Label Formats
  - Mexico Label Module: 2020 Label Formats
  - EU: Label Formats
- Recommendation Profiles
- Format Options
- Nutrient Options
- Advanced Labels

Genesis R&D Training

Genesis R&D Foods Professional + FDA Regulations
This 2-day training session covers the fundamentals of the Genesis R&D Food program with a primary focus on FDA regulations: creating ingredients and composite ingredients, building recipes/formulas, nutrition analysis, moisture loss, reporting, labeling, best practices, and much more. In addition, this session covers a comprehensive FDA regulatory review.

Genesis R&D Foods Advanced Training
The 1-day Advanced session builds upon the skills learned in the Professional training and offers deeper learning on topics including PDCAAS, International Food Labeling, Advanced Label Settings, and more.

Session Options:
- 3-day Combined Professional + Advanced Training
- 2-day Professional Training
- 1-day Advanced Training (Prerequisite: Professional Training)

Date	Training Session Title
May 11-13, 2021	Genesis R&D Foods Professional and/or Advanced
June 22-24, 2021	Genesis R&D Foods Professional and/or Advanced
July 20-23, 2021	Genesis R&D Foods Professional and/or Advanced

https://esha.com/news-events/training-schedule/   training@esha.com

QUESTIONS?

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