Product Formulation Checks & Balances with Genesis R&D Foods

Presented by ESHA Research

Wednesday, February 23, 2022
11:00 AM PT | 1:00 PM CT | 2:00 PM ET
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
- REX® Regulations Expert Document Search Portal
- 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 Software

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
- Label Creation
- Regulatory Compliance
Upcoming Webinars

Tune in to the 2022 webinar schedule.

New Regulatory Focused webinars and topics continue to be added.

ESHA Webinar Notification Signup Page
https://esha.com/news-events/webinar-notice-signup

To view archived webinars: 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

• Due Diligence
• Nutrients to View
• Nutrient Calculator
• Check Data
• Spreadsheet & Other Reports
• Q&A
Due Diligence

• Have consistent processes in place to report information on and about products as accurately as possible
• Consider information on product packaging and related resources - websites, marketing materials, social media
• Information shall not be misleading to consumers
• Information should bear in mind the protection and safety of consumers
• Essential to perform due diligence on all aspects of labeling of products to ensure that information is correct and appropriate
Entering Ingredients and Recipes

Watch these Genesis R&D Foods 101 Webinars


Nutrients to View

• Sets of nutrients pertinent to your reports or needed for labels
• Genesis R&D includes several predetermined sets of nutrients
• Create as many new sets as you need
• Switch between the sets at any time
Nutrient Calculator

Assists in converting nutrients from one unit to another

• Carbohydrates, Carbohydrates (Available)
• U.S. Dietary Fiber fields
• Vitamin A
• Vitamin B3/Niacin, Tryptophan
• Vitamin D
• Vitamin E
• Folate/Folic Acid
• Salt, Sodium
Check Data

- Use as part of your standard review of Recipes
- Compares estimated/calculated values to data as entered
- Does not indicate compliance or non-compliance, but serves as helpful feedback
Spreadsheet Report

Complete and correct entry of Ingredients contributes to accurate and compliant recipe analysis and labels. Review the Spreadsheet report for ALL Recipes to ensure that required information is reported.

<table>
<thead>
<tr>
<th>Item Name</th>
<th>Quantity</th>
<th>Measure</th>
<th>TransFat (g)</th>
<th>Chol (mg)</th>
<th>Vit D-mcg (mcg)</th>
<th>Calc (mg)</th>
<th>Iron (mg)</th>
<th>Pot (mg)</th>
<th>Sod (mg)</th>
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<tbody>
<tr>
<td>Webinar Sodium Override</td>
<td>1 Serving</td>
<td></td>
<td>0</td>
<td>62.82</td>
<td>0</td>
<td>15.77</td>
<td>1.09</td>
<td>571.53</td>
<td>350.00</td>
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<tr>
<td>salmon, atlantic, wild, baked web</td>
<td>3.12104</td>
<td>Ounce</td>
<td>0</td>
<td>62.82</td>
<td>0</td>
<td>13.27</td>
<td>0.91</td>
<td>556.65</td>
<td>49.55</td>
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<tr>
<td>Webinar Marinade</td>
<td>31.2104</td>
<td>Gram</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>soy sauce, tamari</td>
<td>0.022122</td>
<td>Cup</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1.27</td>
<td>0.15</td>
<td>13.51</td>
<td>355.90</td>
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<tr>
<td>water, municipal tap</td>
<td>0.08848</td>
<td>Cup</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.63</td>
<td>0.21</td>
<td>0.63</td>
<td></td>
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<tr>
<td>sugar, brown</td>
<td>0.17698</td>
<td>Tablespoon</td>
<td></td>
<td>0</td>
<td>--</td>
<td>0</td>
<td>0</td>
<td>--</td>
<td></td>
</tr>
<tr>
<td>ginger, ground</td>
<td>0.044245</td>
<td>Teaspoon</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.09</td>
<td>0.02</td>
<td>1.05</td>
<td>0.02</td>
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<tr>
<td>garlic cloves, fresh</td>
<td>0.00849</td>
<td>Each</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.48</td>
<td>0.00</td>
<td>1.06</td>
<td>0.05</td>
</tr>
<tr>
<td>starch, corn</td>
<td>0.17698</td>
<td>Tablespoon</td>
<td></td>
<td>0</td>
<td>0</td>
<td>0.03</td>
<td>0.01</td>
<td>0.04</td>
<td>0.13</td>
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</table>

Moisture Adjustment: 6.00 Percent

Total 1 Serving 0 62.82 0 15.77 1.09 571.53 350.00
Notes Fields

- Use the Notes fields in Ingredient records and in Recipes to document supporting information.
- Notes titles can be renamed as needed to help sort the type of information recorded.
Audit Trail

• Turned off by default
• When enabled and a file is saved, records the date and user that made the save
• Useful piece of documentation as Ingredients and Recipes are modified
• Comment box to enter additional notes
Record-Keeping - Attachments

• Attach files to Ingredient records, Recipes, and Advanced Labels for documentation purposes
• Various file types can be attached to a record including PDF, JPG, CSV, MP4, and more
View Documents

- Review the reports available in Genesis R&D and use those that work best for you.
- Use the export functions to send data where it is needed.

Report Examples Shown
- Multicolumn
- Spec Sheet 100g
- Single Nutrient
Example: Wheat Ingredient with correct names and allergens used in Bread Recipe

INGREDIENTS: Water, All Purpose Unbleached Flour (Wheat Flour, Malted Barley Flour, Niacin (Vitamin B3), Iron, Thiamin (Vitamin B1), Riboflavin (Vitamin B2), Folic Acid), Sugar, Butter (Sweet Cream, Natural Flavor), Yeast, Salt.

Allergen Statement: Contains Milk, Wheat.
Groups

- Organizing records
- Searching (include/exclude)
- Exporting
  - Which version of records to share or publish
  - ESHA Port
  - Genesis R&D API
- Access Control
  - ESHA Security
  - Levels of read/write access
Attributes

• Document properties or characteristics
• Attach documentation to support the Attribute
• Ingredient Attributes carry forward to Recipes
• Qualifying Attributes appear on the View Label report
Nutrition Facts Compliance Cheat Sheet

• Have a methodical process to address all aspects of labeling

• ESHA Cheat Sheet provides an example of points to review
Genesis R&D Training

**Session Options:**
- Professional
- Advanced *(Prerequisite: Professional Training)*
- Combined Professional and Advanced

**Location Options:**
- ESHA Training Center (Oak Brook, IL)
- Online

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**Genesis R&D Foods Professional**
This 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 regulatory review.

**Genesis R&D Foods Advanced Training**
The 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.

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**Learn More:**
- Visit [www.esha.com](http://www.esha.com) for the full list of upcoming classes.
- Does your organization need group training? Contact training@esha.com

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<td>ESHA Training Center</td>
<td>Mar. 15-16, 2022</td>
<td>2-Day Genesis R&amp;D Foods Professional</td>
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<td>Mar. 17, 2022</td>
<td>1-Day Genesis R&amp;D Foods Advanced</td>
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<tr>
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<td>Mar. 14-17, 2022</td>
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<td>Apr. 19-20, 2022</td>
<td>2-Day Genesis R&amp;D Foods Advanced</td>
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