Agile Product Lifecycle Management for Process

Nutrition Surveillance Management User Guide

Release 6.0.0.6

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Agile Product Lifecycle Management for Process, Release 6.0.0.6

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June 2012

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About This Manual

Agile Product Lifecycle Management for Process Documentation

The Agile Product Lifecycle Management (PLM) for Process documentation set includes Adobe® Acrobat™ PDF files. The Oracle Technology Network (OTN) Web site: http://www.oracle.com/technetwork/documentation/agile-085940.html contains the latest versions of the Agile Product Lifecycle Management for Process PDF files. You can view or download these manuals from the Web site, or you can ask your Agile administrator if there is an Agile Product Lifecycle Management for Process Documentation folder available on your network from which you can access the Agile PLM for Process documentation (PDF) files.

Note To read the PDF files, you must use the free Adobe Reader™ version 7.0 or later. This program can be downloaded from the Adobe Web site: http://www.adobe.com/.

If you need additional assistance or information, please go to http://metalink.oracle.com or phone 1.800.233.1711 for assistance.

Before calling Oracle Support about a problem with an Agile PLM for Process manual, please have the full part number, which is located on the title page.

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Go to the Oracle University Web page http://www.oracle.com/education/chooser/selectcountry_new.html for more information on Agile Training offerings.

Accessibility of Code Examples in Documentation

Screen readers may not always correctly read the code examples in this document. The conventions for writing code require that closing braces should appear on an otherwise empty line; however, some screen readers may not always read a line of text that consists solely of a bracket or brace.

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This documentation may contain links to Web sites of other companies or organizations that Oracle does not own or control. Oracle neither evaluates nor makes any representations regarding the accessibility of these Web sites.

Audience

This guide is intended for end users who are responsible for creating and managing information in Agile Product Lifecycle Management for Process. Information about administering the system resides in the *Agile Product Lifecycle Management for Process Administrator User Guide.*

Variability of Installations

Descriptions and illustrations of the Agile Product Lifecycle Management for Process user interface included in this manual may not match your installation. The user interface of Agile Product Lifecycle Management for Process applications and the features included can vary greatly depending on such variables as:

- Which applications your organization has purchased and installed
- Configuration settings that may turn features off or on
- Customization specific to your organization
- Security settings as they apply to the system and your user account

Where to Find Information

Consult the table below to find specific information from the relevant Agile Product Lifecycle Management for Process information source.

Table 1: Agile Product Lifecycle Management for Process documentation topics, by source

Information type	NSM User Guide	Admin. User Guide	Release Notes	Agile training	Help Desk	Agile sales rep
Administering Agile PLM for Process		●		●		
Cache management		●				
Core data management		●				
Creating specifications				●		
Custom data management		●				
Custom sections		●		●		
Extended attributes		●		●		
Feature requests					●	●
Group management		●				
Installing Agile PLM for Process				●		●
Known issues			●			
New in this release			●	●		●
Nutrient analysis	●					

Table 1: Agile Product Lifecycle Management for Process documentation topics, by source (continued)

Information type	NSM User Guide	Admin. User Guide	Release Notes	Agile training	Help Desk	Agile sales rep
Nutrient comparison	●					
Nutrient composites	●					
Printing				●		
Resolved issues			●			
System-based roles		●				
Technical support					●	
User management		●				
Using the NSM application	●			●		
Workflow management		●				

Document Conventions

The following formatting elements appear in Agile Product Lifecycle Management for Process documentation.

Element	Meaning
Helvetica Condensed, 9 pt. bold type	A user interface (UI) element that a procedure is instructing you to click, select, or type into. For example, buttons or text entry fields.
`9 pt. monospace font`	Code samples
`10 pt. monospace font`	File names or directory names
Blue italic font	The linked portion of a cross-reference. Click it to go to the referenced heading, table, or figure.
Minion Typeface, Title Case	A named UI element that a procedure is describing but not instructing you to click, select, or type into.

Element	Meaning
Note Minion 11.5 pt, with faint blue bar over & under	Alerts you to supplemental information.
Caution! Minion 11.5 pt, with faint red bar over & under	Alerts you to possible data loss, breaches of security, or other more serious problems.
Important Minion 11.5 pt, with thick red bar over & under	Alerts you to supplementary information that is essential to the completion of a task.

CHAPTER 1

Using Nutrition Surveillance Management

This chapter describes the capabilities and applied uses of the NSM application. It includes the following topics:

- *Overview*
- *Touch Points with Other Applications*
- *Getting Started with Nutrition Surveillance Management*
- *Nutrient Analysis*
- *Nutrient Composite*
- *Nutrient Comparison*

Overview

Nutrition Surveillance Management (NSM) enables you to accurately track nutrient surveillance results and compare them to existing nutrient values for raw material or finished goods. You can save and manage nutrient data from individual samples or create composites and then compare these values to those that are declared on the approved specifications.

NSM acts as the clearinghouse for nutrient information. NSM can be the source of nutrient data for products and ingredients in GSM. Data from NSM can be imported into nutrient profiles or nutrient compositions which in turn are used to generate nutrient information for labeling and communication to the supply chain.

Nutrient analysis and nutrient composites form the core features of NSM. NSM also has functionality to compare nutrient data in nutrient analyses, nutrient composites, and GSM specifications.

Touch Points with Other Applications

Global Specification Management

Nutrition Surveillance Management interfaces with the Global Specification Management (GSM) application in the following ways:

- Nutrient information from nutrient analyses can be used by specifications in GSM.
- Nutrient information from nutrient composites can be used by specifications in GSM.
- The Nutrient Comparison feature enables you to compare the nutrient values currently assigned to the specification in GSM against those of one or multiple specifications, nutrient composites, or nutrient analyses.

These topics are covered in this guide. For more information, refer to the *Agile Product Lifecycle Management for Process Global Specification Management User Guide*.

Getting Started with Nutrition Surveillance Management

Accessing Nutrition Surveillance Management

To access the NSM application, click **NSM** from the left navigation panel, as shown in figure 1-1 below, or select **NSM** from the Applications menu on the top menu bar.

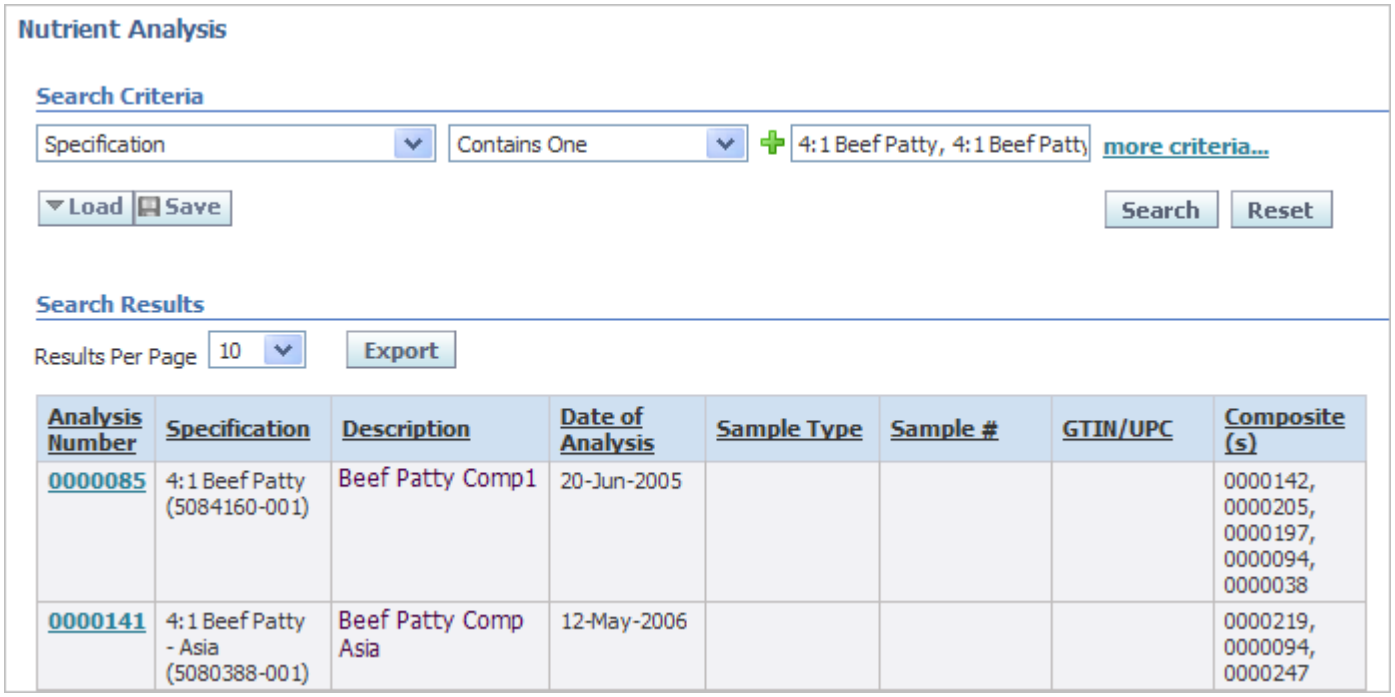
Figure 1-1: NSM menu from the left navigation panel



Nutrient Analysis

You can navigate to a nutrient analysis by clicking **Nutrient Analysis** in the left navigation panel. Provide search criteria in the Nutrient Analysis search page, then click **Search**. The search results display the analysis number and the specification name in addition to information like date, description, and sample type, as figure 1-2 shows below:

Figure 1-2: Search results



Some important fields displayed in the results are:

- **Analysis Number**—A unique identifier assigned to each nutrient analysis in NSM. This is a system generated number.
- **Specification**—The name of the GSM specification that the nutrient analysis is tied to. The specification number and issue number are displayed in parentheses.
- **Composite(s)**—This column lists all the nutrient composites where this nutrient analysis is consumed.

Click a nutrient analysis number to open the analysis.

Nutrient Analysis Page

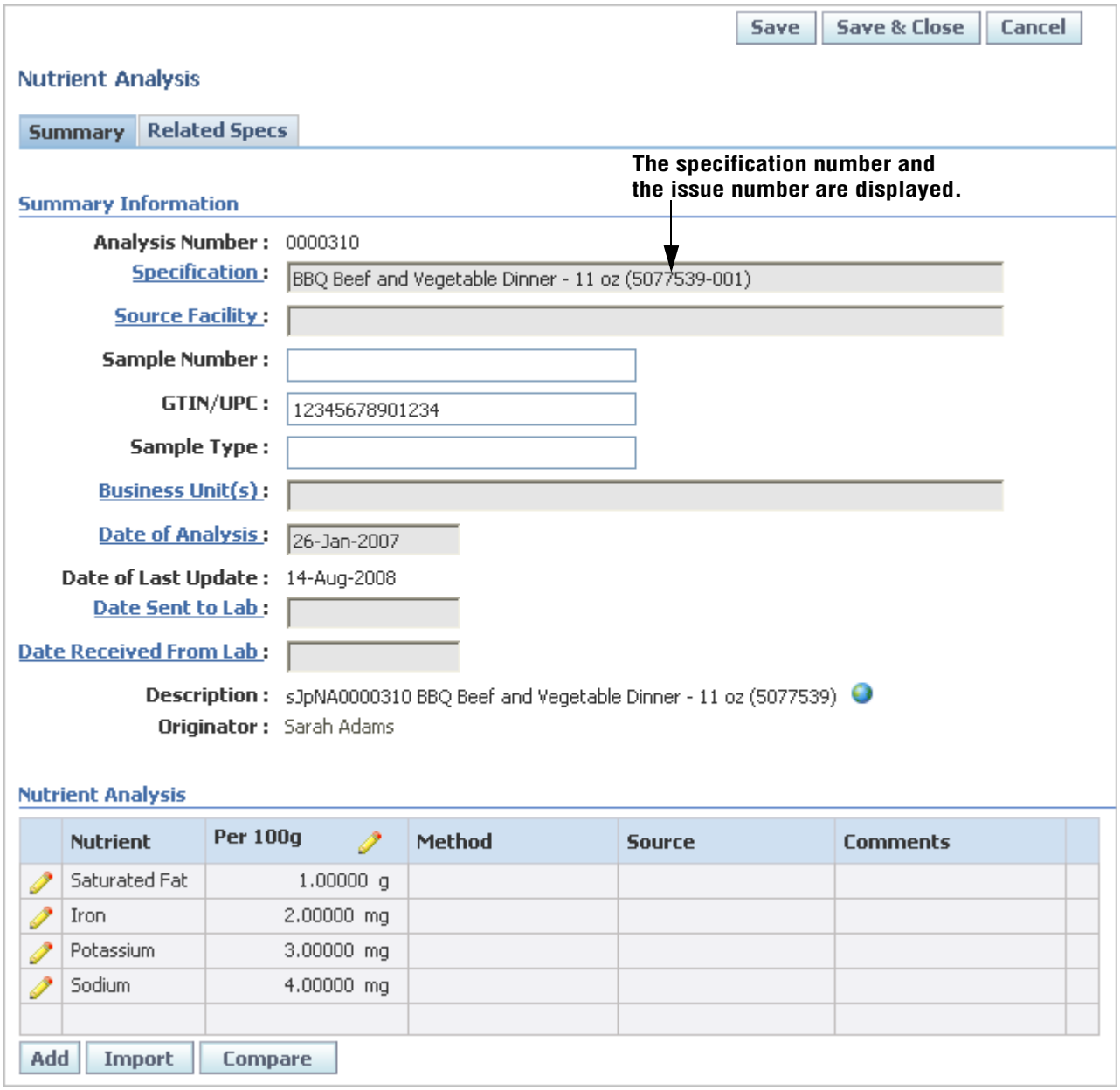
The Nutrient Analysis page consists of two tabs :

- Summary
- Related Specs

Summary Tab

As figure 1-3 shows below, the Summary tab has two sections: Summary Information and Nutrient Analysis.

Figure 1-3: Nutrient Analysis page, Summary tab



Summary Information Section

The Summary Information section contains general information about the nutrient analysis:

- **Analysis Number**—System-assigned analysis number. This field cannot be changed.
- **Specification**—The GSM specification the analysis is tied to. The specification number and issue number are also displayed. Click the hyperlinked specification name to view the specification in GSM.

- **Source Facility**—The facility where the sample is sourced. Click the hyperlinked facility name to view the facility profile in Supply Chain Relationship Management (SCRM). The message "Not authorized to see facility" appears if the user does not have access to the facility associated to the nutrient analysis.
- **Sample Number**—User-defined number for the sample. This can be alpha or numeric.
- **GTIN/UPC**—Free-text field identifying reference codes.
- **Sample Type**—User-defined field denoting the type of sample, such as raw material or finished product.
- **Business Unit(s)**—Business units the analysis is tied to.
- **Date of Analysis**—Date of the analysis.
- **Date of Last Update**—Date of the last save of the analysis.
- **Date Sent to Lab**—Date the analysis was sent to the lab.
- **Date Received from Lab**—Date the analysis was received from the lab.
- **Description**—Description of the analysis.
- **Originator**—The name of the user who created the analysis. This field is automatically generated and cannot be changed.

Nutrient Analysis Section

The Nutrient Analysis section holds the nutrient information for the sample. The columns in this section are:

- **Nutrient**—The name of the nutrient.
- **Per 100g**—The amount of nutrient per 100 grams.
- **Method**—Lists the testing method.
- **Source**—If the nutrient information is from an external source like a standard reference library or a lab, it is included here. This list is managed by an administrator. Refer to the *Agile Product Lifecycle Management for Process Administrator User Guide* for more information.
- **Comments**—Additional comments about this particular nutrient.

Related Specs Tab

As figure 1-4 shows below, the Related Specs tab consists of two sections: Related Specifications and Related Composite(s).

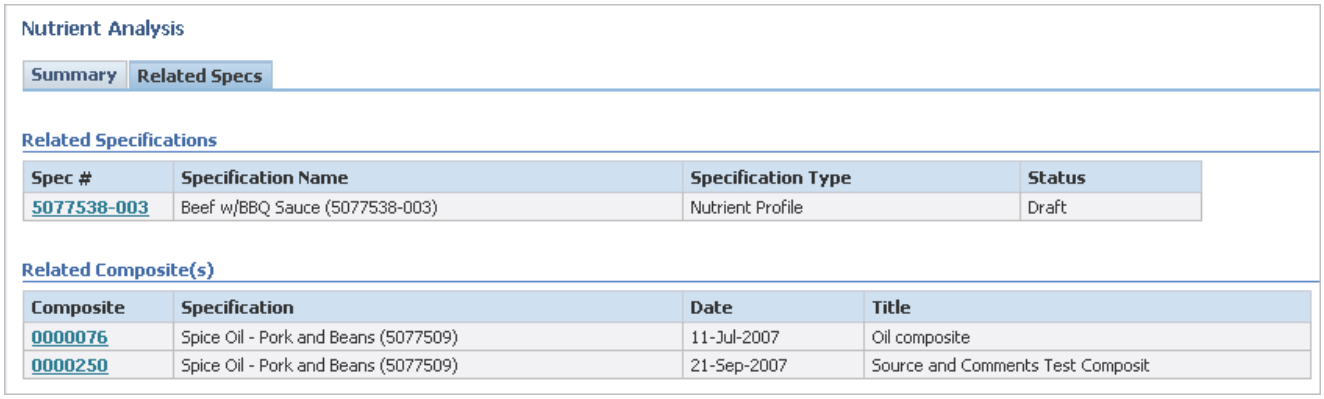
Related Specifications Section

The Related Specifications section lists all the specifications in GSM that have imported values from and are still referencing this particular nutrient analysis.

Related Composites Section

The Related Composites section lists all the nutrient composites that are built using this nutrient analysis.

Figure 1-4: Related Specifications and Related Composites sections



Creating a Nutrient Analysis

To create a nutrient analysis:

1. Click **NSM > Nutrient Analysis** from the left navigation panel.
2. Click **Create New** on the top right of the page. NSM creates a new nutrient analysis.
3. In the Summary Information section, complete the following fields:
   - **Specification**—The name of the GSM specification that the nutrient analysis is tied to. This is a required field. Select a specification by clicking the field name link. The specification search page displays. Select a specification type from the drop-down list, enter search criteria, then click **Search**. Select a specification from the search results. That specification and its related specification number and issue number populate this field.
   - **Source Facility**—Select the source facility for this sample by clicking the field name link. A search page displays. Search for and select a facility. The facility name populates this field.
   - **Business Unit**—Fill in the business unit if the analysis applies to a specific business unit.

4 Click **Save**. To add nutrients to the analysis, complete the steps described below in *Adding Nutrients to a Nutrient Analysis*. The Nutrient Analysis section, shown in figure 1-5 below, hosts all the analysis data for all the nutrients tested for in the product sample.

Figure 1-5: Nutrient Analysis section

Nutrient Analysis

Nutrient	Per 100g	Method	Source	Comments
Calories	103.00000 kcal			
Energy kJ	432.00000 kJ			
Protein	12.49000 g		From Manufacturer	
Carbohydrates	2.68000 g		USDA Nutrient Database	
Total Fat	4.51000 g		From Nutritional Database	
Saturated Fat	2.85300 g			
Monounsaturated Fat	1.28500 g			
Cholesterol	15.00000 mg			
Calcium	60.00000 mg			
Iron	0.14000 mg			
Magnesium	5.00000 mg			
Phosphorus	132.00000 mg			
Potassium	84.00000 mg			
Sodium	405.00000 mg			
Copper	0.02800 mg			
Manganese	0.00300 mg			

Add Import Compare

Adding Nutrients to a Nutrient Analysis

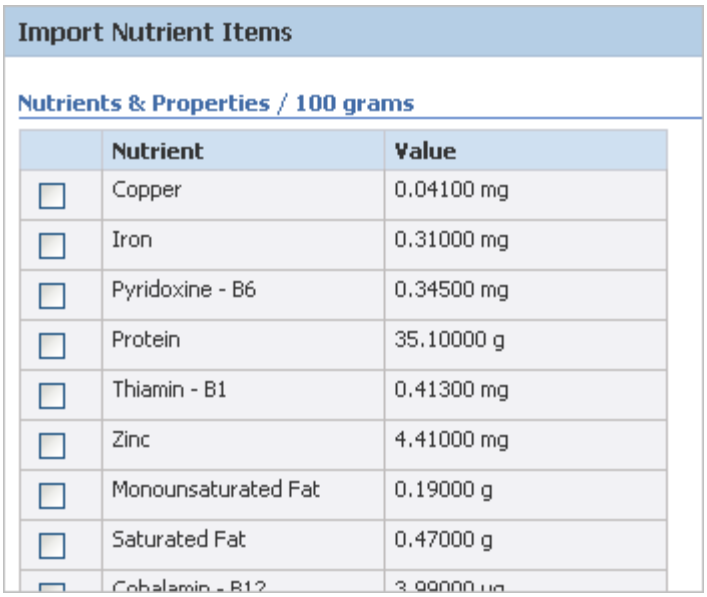
There are three ways to add nutrients to a nutrient analysis. You can manually add nutrients that already defined in the application, you can import nutrients from Food Composition Library (FCL), or you can leverage existing analyses.

To add nutrients to a nutrient analysis, select one of the following methods:

1 **Adding Nutrients**—With the page in edit mode, click **Add**. A dialog box displays. Select nutrients to include in this analysis. Note that when you manually add nutrients, only the names of the nutrients are added. The rest of the columns must be manually entered. Click **Done** to close the dialog box. Click **Save** on the Nutrient Analysis page.

2 **Importing Nutrients from FCL**—With the page in edit mode, click **Import**. A search page displays. Select **Food Composition Library** from the drop-down list, enter the search criteria, then click **Search**. Select the food item name by clicking the hyperlinked **Food Item ID** field in the Search Results section. You will see the nutrient composition of that particular food item. Select the nutrients you would like to import and click **Import**. The nutrients that you selected have been imported along with the values in the Per 100g column and the Source column on the Nutrient Analysis page. Click **Save**. Figure 1-6 below shows nutrients in a food item from FCL. For more details on FCL, please refer to the *Agile Product Lifecycle Management for Process Global Specification Management User Guide.*

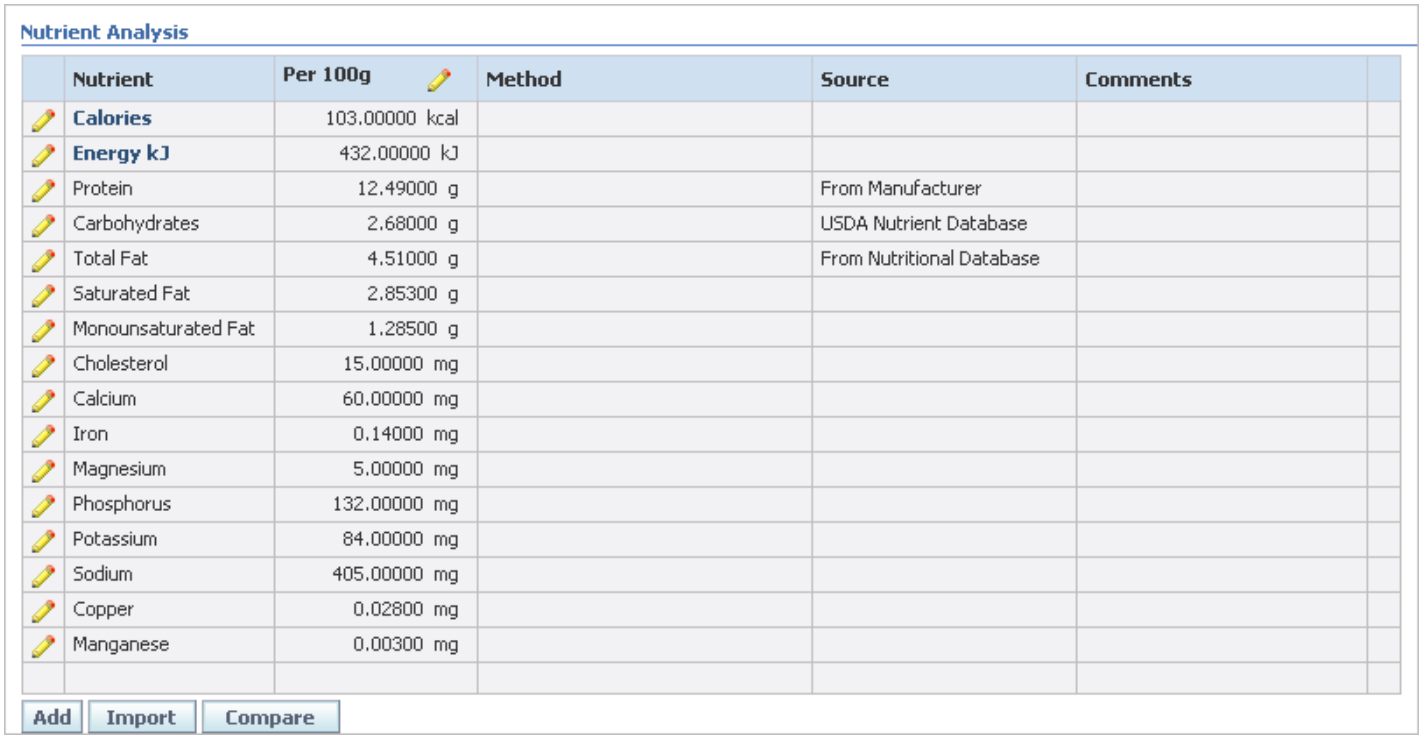
Figure 1-6: Nutrients in a food item



3 **Importing Nutrients from Other Analyses**—Instead of using FCL, you can select nutrients from existing nutrient analyses. With the page in edit mode, click **Import**. On the search page, select **Nutrient Analysis** from the drop-down list. Enter the search criteria, then click **Search**. Select the analysis by clicking the hyperlinked **Analysis Number** field in the Search Results section. A page similar to figure 1-6 above will be displayed. Select the nutrients you would like to import and click **Import**. They will be imported into the new nutrient analysis along with their associated per 100 g values. Click **Save**.

Figure 1-7 below shows examples of nutrients that are either manually added or imported. Note that the Source column tells you where the nutrient information was obtained from.

Figure 1-7: Nutrient Analysis section, added nutrients



Nutrient Analysis

Nutrient	Per 100g	Method	Source	Comments
Calories	103.00000 kcal			
Energy kJ	432.00000 kJ			
Protein	12.49000 g		From Manufacturer	
Carbohydrates	2.68000 g		USDA Nutrient Database	
Total Fat	4.51000 g		From Nutritional Database	
Saturated Fat	2.85300 g			
Monounsaturated Fat	1.28500 g			
Cholesterol	15.00000 mg			
Calcium	60.00000 mg			
Iron	0.14000 mg			
Magnesium	5.00000 mg			
Phosphorus	132.00000 mg			
Potassium	84.00000 mg			
Sodium	405.00000 mg			
Copper	0.02800 mg			
Manganese	0.00300 mg			

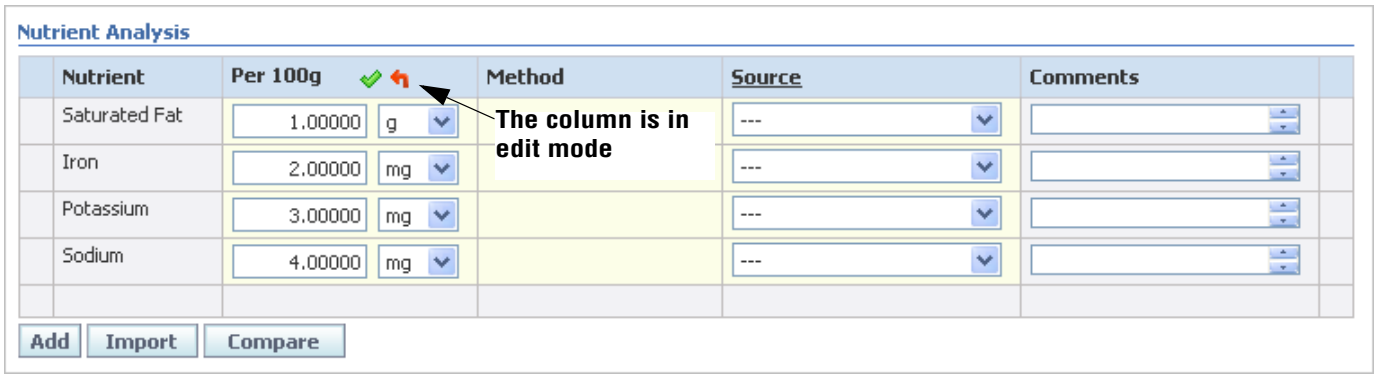
Add Import Compare

Modifying Values

Figure 1-8 below shows the Nutrient Analysis page in edit mode. To update the Per 100g value, you can either click the edit icon ( ) next to each nutrient, or click the edit icon ( ) next to Per 100g column.

You can update nutrient values as well as the sources in this page. Click the apply changes icon ( ) next to the Per 100g column header to save the changes. If you modify a nutrient value that was imported from FCL or nutrient analysis, the source column will be cleared.

Figure 1-8: Modifying a nutrient value



Once done, click **Save** or **Save & Close** at the upper right of the page.

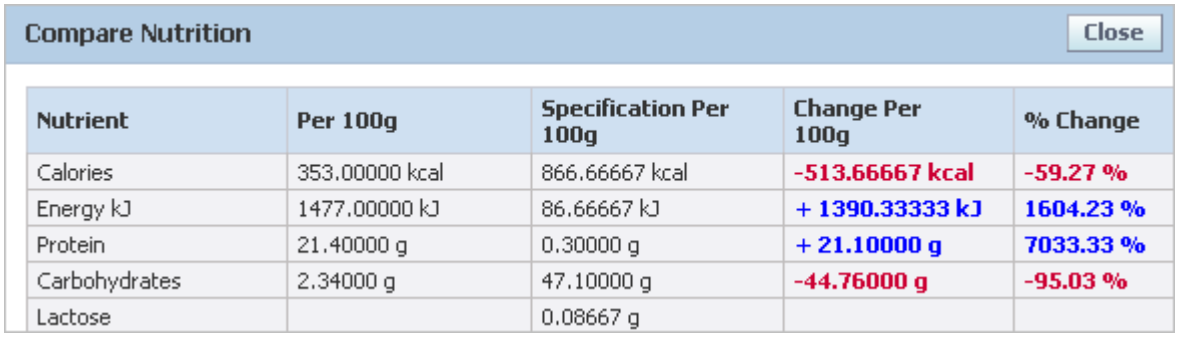
Comparing Nutrient Analyses

The nutrient comparison feature enables you to compare the nutrient values currently assigned to the specification in GSM against the nutrient values declared in this particular nutrient analysis. In order to compare nutrient information, open a nutrient analysis and scroll to the bottom of the Summary tab. Click **Compare**. The Compare Nutrition dialog box displays. It shows the compared nutrient information.

The Compare Nutrition dialog box, shown in figure 1-9 below, contains the following columns:

- **Nutrient**—Lists the name of the nutrient.
- **Per 100g**—Displays the amount of nutrient in 100g sample. This value is from the nutrient analysis.
- **Specification Per 100g**—Displays the amount of nutrient per 100g declared on the specification. This value is from the specification in GSM.
- **Change Per 100g**—Difference between the nutrient values in the specification and the nutrient analysis.
- **% Change** —The difference in percentage.

Figure 1-9: Compare Nutrition dialog box



Nutrient	Per 100g	Specification Per 100g	Change Per 100g	% Change
Calories	353.00000 kcal	866.66667 kcal	-513.66667 kcal	-59.27 %
Energy kJ	1477.00000 kJ	86.66667 kJ	+ 1390.33333 kJ	1604.23 %
Protein	21.40000 g	0.30000 g	+ 21.10000 g	7033.33 %
Carbohydrates	2.34000 g	47.10000 g	-44.76000 g	-95.03 %
Lactose		0.08667 g		

Copying a Nutrient Analysis

To copy a nutrient analysis, click **Create Copy**. A new analysis is created. The relevant information from the Summary tab of the current nutrient analysis will be copied into the new one. Data from the Related Spec tab will not be copied to the new analysis. The new analysis is opened in edit mode by default.

Nutrient Composite

NSM has the ability to composite sample values to obtain representative nutrient values from a number of sample analyses. You can use this feature to create composites for data obtained from multiple suppliers, from multiple labs, or from multiple samples. Nutrient information from nutrient composites can be leveraged by specifications in GSM.

In order to access nutrient composites, navigate to NSM and click **Nutrient Composite** in the left navigation panel. Just like in nutrient analysis, use the standard search tool to find the composites you are looking for. The search result page displays the nutrient composites that match your search criteria, as figure 1-10 shows below.

Figure 1-10: Search results



The table includes the following columns:

- **Composite Number**—The system created ID for the nutrient composite.
- **Date of Composite**—Displays the date that the nutrient composite was created.
- **Specification**— Displays the GSM specification that the nutrient composite refers to. The GSM specification number and issue number are displayed in parentheses.
- **Title**—Displays the name of the nutrient composite

Click the hyperlinked **Composite Number** field to open the nutrient composite.

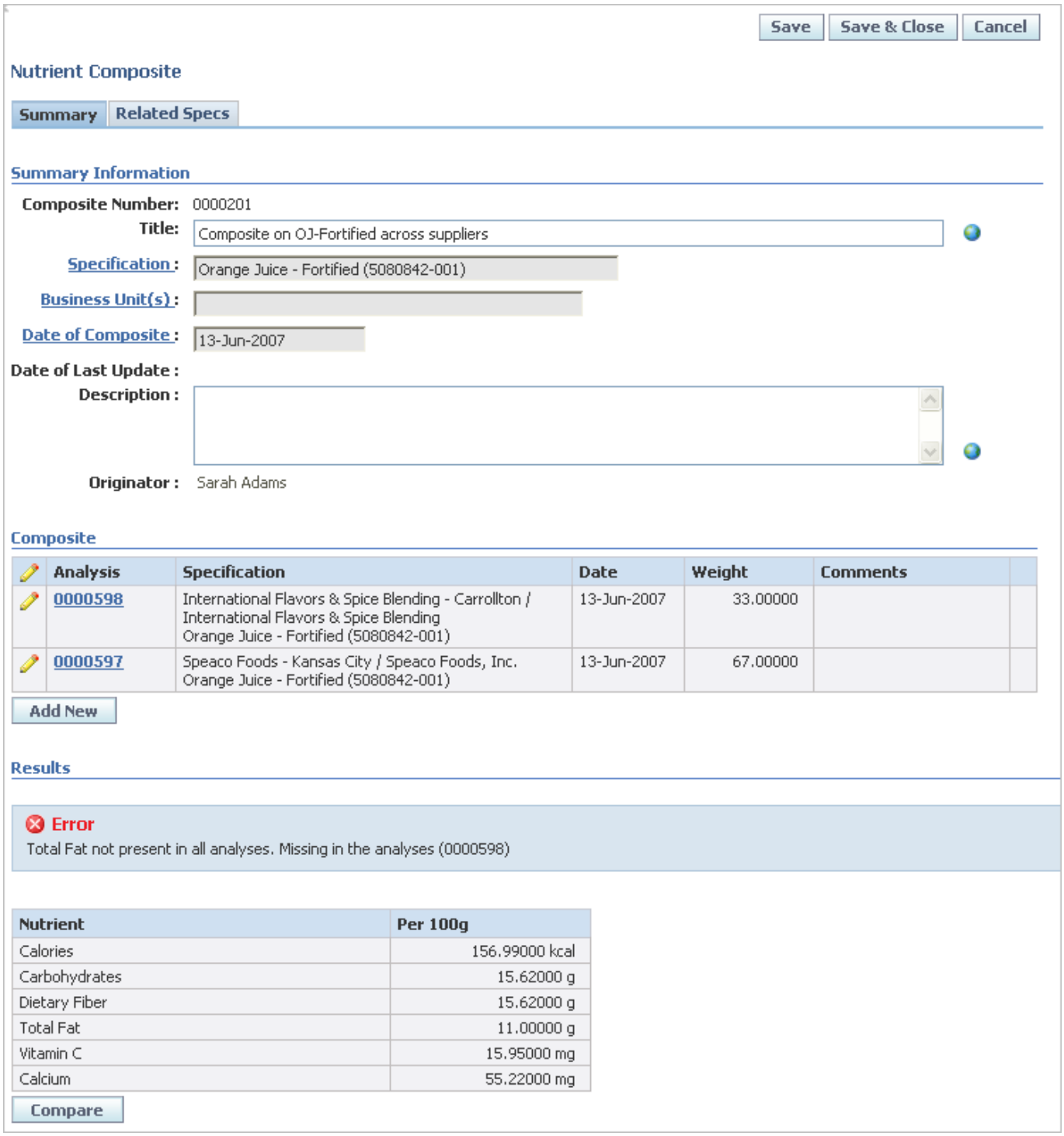
Nutrient Composite Page

The Nutrient Composite page, shown in figure 1-11 below, consists of two tabs: Summary and Related Specs.

Summary Tab

The Summary tab is shown in figure 1-11 below.

Figure 1-11: Summary tab sections



The Summary tab consists of the following sections: Summary Information, Composite, and Results.

Summary Information Section

This section includes fields that describe the nutrient composite:

- **Composite Number**—A unique identifier assigned by the system to each nutrient composite in NSM. This field cannot be changed.
- **Title**—The title of the nutrient composite. This is a required field.
- **Specification**—The name, number, and issue number of the GSM specification that the nutrient composite refers to. This is a required field.
- **Business Unit(s)**—Business units tied to the nutrient composite.
- **Date of Composite**—Date the composite was saved.
- **Date of Last Update**—Date of the last save of the composite.
- **Description**—Detailed text describing the nutrient composite.
- **Originator**—The name of the user who created the nutrient composite. The system populates this field.

Composite Section

This section lists the nutrient analyses that form this composite, including:

- Analysis number
- GSM specification associated with the nutrient analysis. NSM displays the message "Not authorized the see facility" if the user does not does have access to the facility associated to the nutrient composite.
- Date the analysis was created
- Weight of each nutrient analysis in the composite

Weight Analysis

Analyses can be weighted separately when building the composites, so that one analysis can be considered more heavily than another when aggregating the results for the composite. For example, if you have two nutrient analyses, one with 2 g of sugar and the other with 5 g, and they have a weight of 1 each, the resulting composite will have 3.5 g of sugar. The composite would be calculated as follows:

$((2\ g \times 1) + (5\ g \times 1))/2 = 3.5\ g$

However, if the weight of the second nutrient analyses is set to 2, the sugar value in the resulting composite will be calculated as follows:

$((2\ g \times 1) + (5\ g \times 2))/3 = 4\ g$

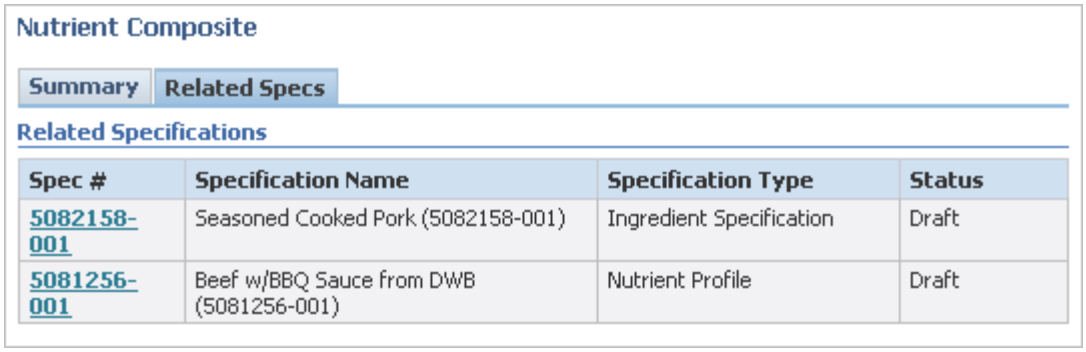
Results Section

This section lists the composited nutrient information.

Related Specs Tab

The Related Specs tab, shown in figure 1-12 below, lists all the GSM specifications that have imported this nutrient composite.

Figure 1-12: Related specifications



The table includes the following columns:

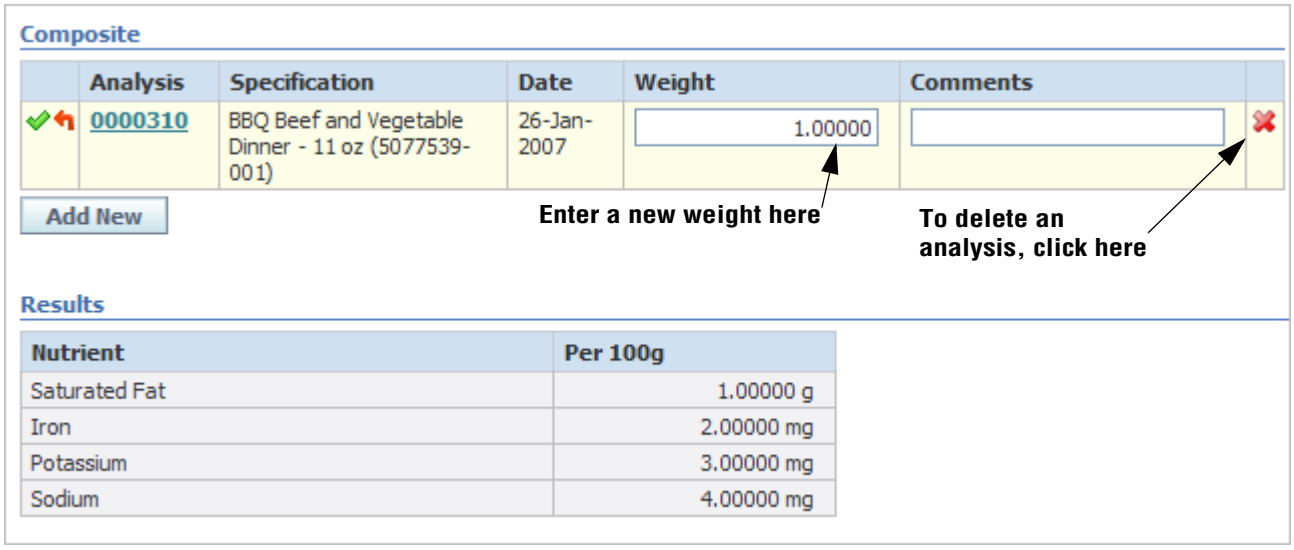
- **Spec #**—Clicking the specification number link displays the specification in GSM.
- **Specification Name**—The name of the specification.
- **Specification Type**—The type of specification.
- **Status**—The status of the specification in GSM.

Creating a Nutrient Composite

To create a nutrient composite:

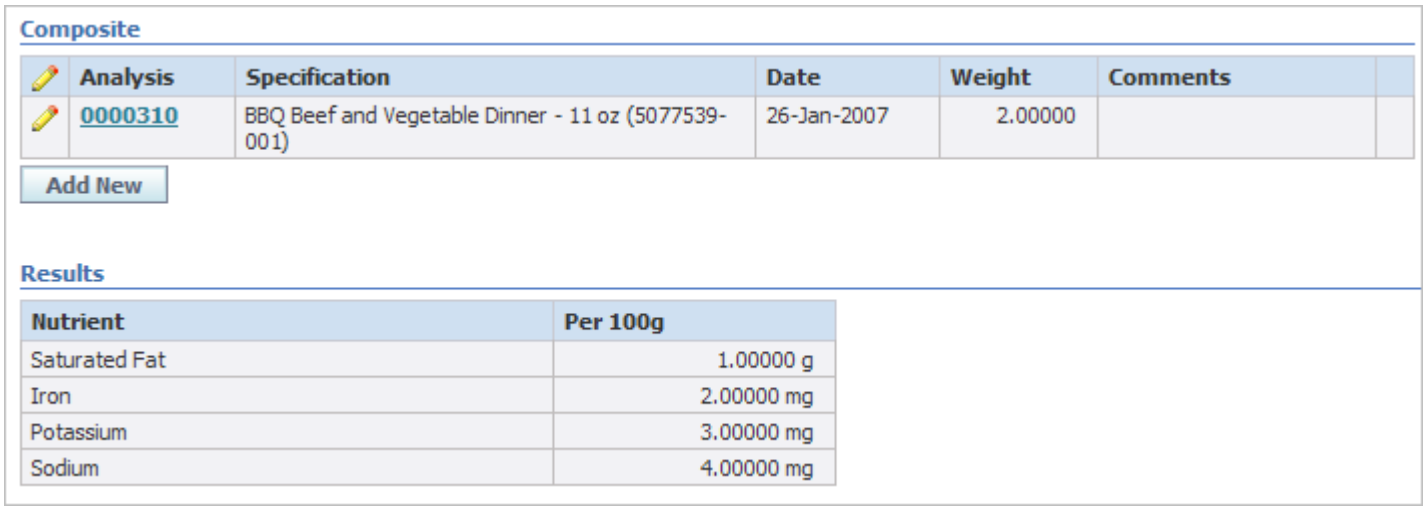
1. Click **NSM > Nutrient Composite** in the left navigation panel.
2. Click **Create New** on the top right of the page. NSM creates a new nutrient composite.
3. In the Composite section, click **Add New** to include nutrient analyses in the nutrient composite. The Search page opens.
4. Search for a nutrient analysis.
5. On the results page, click the analysis number of the nutrient analysis to include in the nutrient composite. The nutrient analysis is added in to the Composite section. You can make multiple selections.
6. Click **Done**.
7. If you need to change the weight, click the edit icon ( ) for the row to change. The row displays in edit mode. Change the weight, and add necessary comments, as figure 1-13 shows below.

Figure 1-13: Editing a weight



8 Click the apply changes icon ( ) to save changes to the row. The Results section displays the composited nutrients, as figure 1-14 shows below:

Figure 1-14: Composited nutrients



9 Click **Save** or **Save & Close**.

Note The Results section displays a warning message when nutrients are not present in all the nutrient analyses.

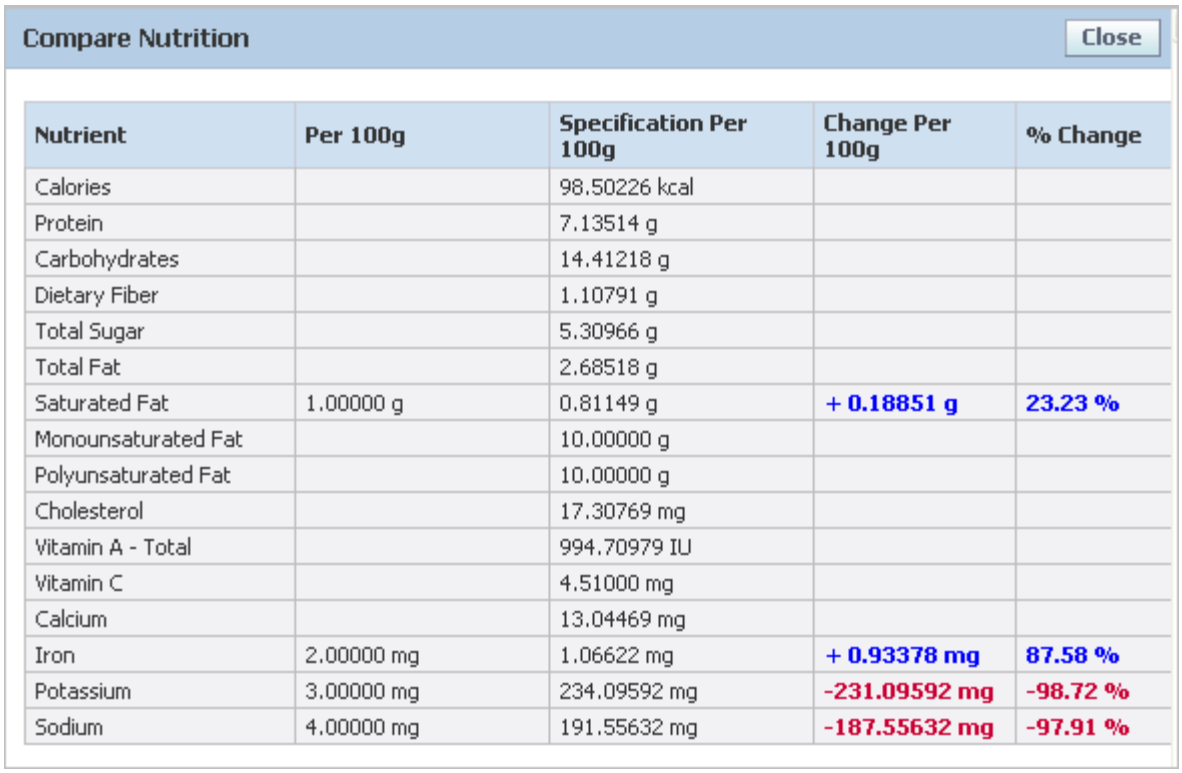
Comparing Nutrient Composites

The nutrient comparison feature allows you to compare the nutrient values currently assigned to the specification in GSM against nutrient make-up of a particular nutrient composite. In order to compare nutrient information, open a nutrient composite and scroll to the bottom of the Summary tab. Click **Compare**. The Compare Nutrition dialog box displays the compared nutrient information and includes the following columns:

- **Nutrient**—Name of the nutrient.
- **Per 100g**—Amount of nutrient in 100 g sample. This value is from the nutrient composite.
- **Specification Per 100g**—Amount of nutrient in a 100 g sample of the specification. This value is from the specification in GSM.
- **Change Per 100g**—Difference between the nutrient values in the specification and the nutrient analysis.
- **% Change**—Difference in percentage.

Figure 1-15 below shows the Compare Nutrition dialog box.

Figure 1-15: Compare Nutrition dialog box



Nutrient	Per 100g	Specification Per 100g	Change Per 100g	% Change
Calories		98.50226 kcal		
Protein		7.13514 g		
Carbohydrates		14.41218 g		
Dietary Fiber		1.10791 g		
Total Sugar		5.30966 g		
Total Fat		2.68518 g		
Saturated Fat	1.00000 g	0.81149 g	+ 0.18851 g	23.23 %
Monounsaturated Fat		10.00000 g		
Polyunsaturated Fat		10.00000 g		
Cholesterol		17.30769 mg		
Vitamin A - Total		994.70979 IU		
Vitamin C		4.51000 mg		
Calcium		13.04469 mg		
Iron	2.00000 mg	1.06622 mg	+ 0.93378 mg	87.58 %
Potassium	3.00000 mg	234.09592 mg	-231.09592 mg	-98.72 %
Sodium	4.00000 mg	191.55632 mg	-187.55632 mg	-97.91 %

Nutrient Comparison

Nutrient comparison enables you to compare nutrient analyses, nutrient composites, and GSM specifications against each other. Examples of comparisons are:

- One nutrient analysis against one or more nutrient analyses
- One nutrient analysis against a nutrient analysis and a nutrient composite
- One GSM specification against another GSM specification
- One GSM specification against a nutrient composite and several nutrient analyses

In general, you can compare nutrient information between two or more entities, either of the same type or of different types. Entities available for comparison are:

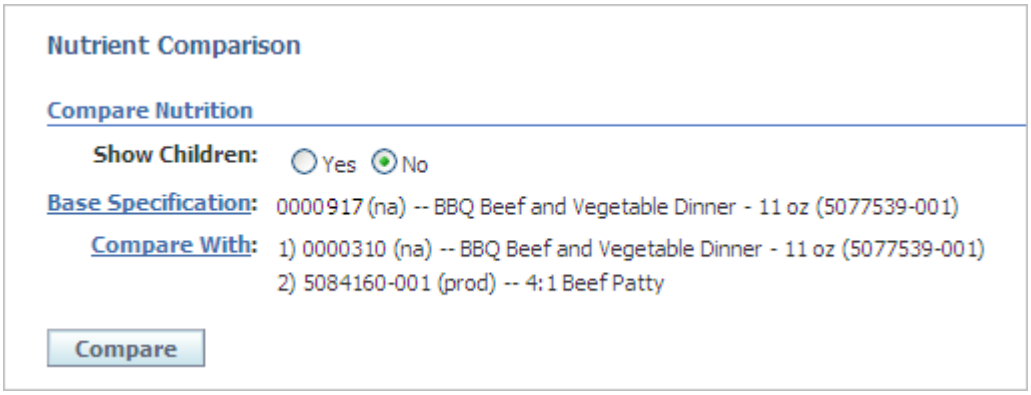
- Nutrient analysis
- Nutrient composite
- Ingredient specification
- Product specification
- Menu item specification
- Trade specification

Note To ensure optimal performance, your Agile administrator may limit the number of specifications that NSM can compare to a preset maximum.

Nutrient Comparison Page

Figure 1-16 below shows a nutrient analysis, denoted by (na), being compared to a nutrient analysis (na) and a product specification (prod).

Figure 1-16: Comparison among nutrient analysis, product specification, and nutrient analysis



When you click **Compare**, the nutrient comparison of the three displays, as shown in figure 1-17 below.

Figure 1-17: Comparison results

Results

	0000917 (na)	1) 0000310 (na)		2) 5084160-001 (prod)	
Nutrient	**Per 100g**	**Per 100g**	**% Diff**	**Per 100g**	**% Diff**
Carbohydrates				20.000	
Dietary Fiber				2.000	
Saturated Fat	**1.000 g**	1.000 g	0.000 %		
Cholesterol				100.000	
Vitamin C				5.000	
Vitamin D				5.000	
Calcium				10.000	
Iron	**2.000 mg**	2.000 mg	0.000 %	15.000 mg	+650.000 %
Potassium	**3.000 mg**	3.000 mg	0.000 %		
Sodium	**4.000 mg**	4.000 mg	0.000 %		
Nitrogen				1.000	
Starch				1.000	

The % Diff values are calculated with respect to the base specification. Cells are grayed out if the nutrient is not defined for that column.

If you select a menu item specification as the base specification and then select **Yes** for Show Children, you can compare the nutrients of child specifications (top-level bill of materials) of the parent specification, as shown in figure 1-18 below.

Figure 1-18: Comparison of a product specification (child of a menu item specification) against other specifications

