WEBINAR



Converting Your Labels from 1990 to 2016 Regulations Presented by ESHA Research Wednesday, April 18, 2018 11:00 AM PDT | 1:00 PM CDT | 2:00 PM EDT

ESHA Research



ESHA Research was established in 1981 as the first comprehensive nutrition analysis software solution. 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.

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Genesis R&D Food



Genesis R&D was released in 1991 and is designed to help users manage processes and industry challenges, and meet federal requirements.

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



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Agenda

- Regulations overview
 - Timeline
 - Formatting
 - Nutrient changes and calculations
 - Dietary fiber definition
 - Added sugars
 - RACC Changes
 - Dual Column labeling rule
- Best practices for making the transition



Timeline for Compliance*

The compliance date for the updated Nutrition Facts labels will be **January 1**, **2020***, for companies with more than 10 million dollars in annual food sales

January 1, 2021*, for companies with less than 10 million dollars in annual food sales.

OR

*September 29, 2017: FDA proposed compliance dates

Nutrition2 servings per containedServing size1	Facts ^{er} cup (140g)
Amount per serving Calories	160
	% Daily Value*
Total Fat ⁸ g	10%
Saturated Fat 3g	15%
Trans Fat 0g	
Cholesterol Omg	0%
Sodium 60mg	3%
Total Carbohydrate 21g	8%
Dietary Fiber 3g	11%
Total Sugars 15g	
Includes 5g Added Sug	ars 10%
Protein 3g	
Vitamin D 5mcg	25%
Calcium 20mg	2%
Iron 1mg	6%
Potassium 230mg	4%

*The % Daily Value tells you how much a nutrient in a serving of food contributes to a daily diet. 2000 calories a day is used for general nutrition advice.



1990 NLEA & 2016 NLEA



Nutri Serving Size Servings Per	2/3 cup (Containe	Fa	cts
Amount Per Sei	rving		
Calories 23	D Cal	ories fror	m Fat 70
		%Da	aily Value*
Total Fat 8g			12 %
Saturated	Fat 1g		5%
Trans Fat	0g		
Cholesterol	0mg		0%
Sodium 160	mg		7%
Total Carbo	hydrate 3	37g	12%
Dietary Fit	ber 4g		16%
Sugars 12	<u>2g</u>		
Protein 3g			
Vitamin A 6%	• V	itamin C	10%
Calcium 25%	ό ∙lr	on 45%	
*Percent Daily V calorie diet. You lower depending	alues are ba r daily values on your calo Calories:	sed on a 2, may be hig prie needs: 2,000	000 gher or 2,500
Total Fat Saturated Fat Cholesterol Sodium Total Carbohydra Dietary Fiber	Less than Less than Less than Less than ate	65g 20g 300mg 2,400mg 300g 25g	80g 25g 300mg 2,400mg 375g 30g

8 servings per containe	r
Serving size 2/3	cup (55g)
Amount per serving	220
Calories	ZJU
9	% Daily Value*
Total Fat 8g	10%
Saturated Fat 1g	5%
Trans Fat 0g	
Cholesterol Omg	0%
Sodium 160mg	7%
Total Carbohydrate 37g	13%
Dietary Fiber 4g	14%
Total Sugars 12g	
Includes 10g Added Suga	ars 20%
Protein 3g	
Vitamin D 2mcg	10%
Calcium 260mg	20%
Iron 8mg	45%
Potassium 235mg	6%

Note: Both formats are available in Genesis R&D as we transition through effective and compliance date timelines. Format options include the appropriate regulations for both.



Nutrient Listing Changes

(shown with previous requirements and, if applicable new DV) Current MANDATORY, VOLUNTARY, and NOT LISTED nutrients



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Nutrient DV Changes



Potassium	Calcium	Vitamin C
4700 mg	1300 mg	90 mg
up from 3500 mg	up from 1000 mg	up from 60 mg
Dietary Fiber	Total Fat	Phosphorus
28 gm	78 gm	1250 mg
up from 25 gm	up from 65 gm	up from 1000 mg
Vitamin K	Magnesium	Manganese
120 MCg up from 80 mcg	420 mg up from 400 mg	2.3 mg up from 2 mg





Daily Value Changes - Potassium

1990 Label

DV = 3500 mg 1750 mg = 50% DV

Nutriti	ion Fa	acts
Serving Size 1 Servings Per C	slice (59g) ontainer 8	
Amount Per Servin	g	
Calories 180	Calories fro	om Fat 60
	%	Daily Value*
Total Fat 6g		9 %
Saturated Fa	it 4g	20 %
Trans Fat 0g		
Cholesterol 25	img	8 %
Sodium 190mg)	8%
Potassium 175	50mg	50%
Total Carbohy	drate 30g	10%
Dietary Fiber	[.] 1g	4%
Sugars 15g		
Protein 3g		
Vitamin A 4%	Vitamin	C 0%
Calcium 6%	• Iron 8%	
*Percent Daily Value diet.	s are based on a	2,000 calorie

2016 Label DV = 4700 mg 1750 mg = 35% DV

NULTION	acis
8 servings per containe Serving size 1	er slice (59g)
Amount per serving Calories	180
	% Daily Value*
Total Fat 6g	8%
Saturated Fat 4g	20%
Trans Fat 0g	
Cholesterol 25mg	8%
Sodium 190mg	8%
Total Carbohydrate 30g	11%
Dietary Fiber 1g	4%
Total Sugars 15g	
Includes 14g Added Sug	gars 28 %
Protein 3g	
Vitamin D 0mcg	0%
Calcium 55mg	4%
Iron 2mg	10%
Potassium 1750mg	35%
*The % Daily Value tells you how much serving of food contributes to a daily d	n a nutrient in a iet.

Nutrition Easte

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Nutrient DV Changes

PANTOTHENIC ACID mg 5 down from 10 mg TOTAL CARBS 275 gm down from 300 gm VITAMIN **B12** 2.4 mcg down from 6 mcg

NIACIN CHLORIDE BIOTIN 16 mg NE 2300 mg **30 mcg** down from down from down from 20 mg 3400 mg 300 mcg SELENIUM SODIUM COPPER 55 mcg 2300 mg 0.9 mg down from down from down from 2400 mg **70 mcg** 2 mgTHIAMIN VITAMIN B6 **RIBOFLAVIN** 1.2 mg 1.7 mg 1.3 mg down from down from down from 1.5 mg 2 mg 1.7 mg CHROMIUM ZINC MOLYBDENUM 35 mcg 11 mg **45 mcg** down from down from down from 120 mcg 15 mg 75 mcg



Daily Value Changes - Carbohydrate

1990 Label	Servings Per Container	8
	Amount Per Serving	
DV = 300 g	Calories 180 Calorie	es from Fat 60
		% Daily Value*
30 g = 10% DV	Total Fat 6g	9%
0	Saturated Fat 4g	20 %
	Trans Fat 0g	
	Cholesterol 25mg	8 %
	Sodium 190mg	8%
	Potassium 1750mg	50 %
	Total Carbohydrate 30	10 %
	Dietary Fiber 1g	4%
	Sugars 15g	
	Protein 3g	
	Vitamin A 4% • Vita	min C 0%
	Calcium 6% • Iron	8%
	*Percent Daily Values are based diet.	on a 2,000 calorie

	Nutrition	Facts
2016 Label	8 servings per contain Serving size	ner 1 slice (59g)
DV = 275 g	Amount per serving Calories	180
20 - 110/01/		% Daily Value*
30 g = 11% DV	Total Fat 6g	8%
•	Saturated Fat 4g	20%
	Trans Fat 0g	
	Cholesterol 25mg	8%
	Sodium 190mg	8%
	Total Carbohydrate 30g	11%
	Dietary Fiber 1g	4%
	Total Sugars 15g	
	Includes 14g Added S	Sugars 28%
	Protein 3g	
	Vitamin D 0mcg	0%
	Calcium 55mg	4%
	Iron 2mg	10%
	Potassium 1750mg	35%
	*The % Daily Value tells you how m serving of food contributes to a dail	uch a nutrient in a v diet.

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Nutrient Unit Changes

Niacin (Voluntary Nutrient)

• Change from mg of Niacin to mg of Niacin Equivalents (NE)

Vitamin A (Voluntary nutrient - previously mandatory)

Change from IU to mcg Retinol Activity Equivalents (RAE)

Vitamin E (Voluntary nutrient)

Change from IU to mg a-tocopherol

Folate (Voluntary nutrient)

• Change from mcg to mcg Dietary Folate Equivalents (DFE)

Vitamin D (Mandatory nutrient - previously voluntary)

Change from IU to mcg









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Nutrient Conversion Calculations



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Nutrient Conversion Calculations



Nutrient Conversion Calculations



Nutrient Calculator

Assists in Calculating the Following Nutrients:

- Carbohydrates
- New Dietary Fiber Fields
- Vitamin A
- Vitamin B3
- Niacin Equivalents
- Tryptophan
- Vitamin D
- Vitamin E
- Folate/Folic Acid



DIETARY FIBER

noun | di·e·tary fi·ber | \'dī-ə-,ter-ē 'fī-bər\

: a statement of the number of grams of dietary fiber in one serving of a food

NEW DEFINITION

New FDA Dietary Fiber Definition:

- determined by FDA to have beneficial physiological effects on human health.
- non-digestible
 soluble and insoluble
 carbohydrates and
 lignan that are intrinsic
 and intact in plants.
- the FDA identifies specific isolated or synthetic non-digestible carbohydrates that meet the 2016 definition of dietary fiber. Additional are under review to be considered as dietary fiber.

NATURAL AND
WHOLENATURAL AND
MECHANICALLYWhole GrainsPROCESSEDBeansCereal branBerriesFlaked cerealsNuts & SeedsFloursBarley
AsparagusImage: Contract of the second sec

dietary libers

© 2018 ESHA Research

ADDED, NON-DIGESTIBLE

DV CHANGE 289 up from 259

Beta-glucan soluble fiber Psyllium husk Cellulose Guar gum Pectin Locust bean gum Hydroxypropylmethylcellulose

>NEW CALCULATION

Based on the new definition, a sample bar with oats, cellulose and inulin would have 10g of Total Dietary Fiber. The 5g of fiber that comes from inulin are not used in calculating Total Dietary Fiber, but ARE used in calculating Total Carbs.

Manufacturers are required to make and keep records verifying the declared amount of dietary fiber. BENEFICIAL Soluble Fiber (oats) BENEFICIAL Insoluble Fiber (cellulose)

OTHER Soluble Fiber

OTHER Insoluble Fiber (Inulin is not 'beneficial)



ON THE LABEL Dietary fiber is indented and rounded to the nearest gram.

- If a serving contains less than 1 gram, declaration is not required.
- But, you may choose to use the statement "Contains less than 1 gram" (or "less than 1 gram").
- If the serving contains less than 0.5 gram, the content may be expressed as zero.

Nutrition Facts

1 serving per containerServing size1 cup (140g)

Amount per serving 160

% Dai	aily Value*	
Total Fat 8g	10%	
Saturated Fat 3g	15%	
Trans Fat 0g		
Cholesterol 0mg	0%	
Sodium 60mg	3%	
Total Carbohydrate 21g	8%	
Dietary Fiber 3g	11%	
Total Sugars 15g		
Includes 5g Added Sugars	10%	
Protein 3g		
Vitamin D 5mcg	25%	
Calcium 20mg	2%	
Iron 1mg	6%	
Potassium 230mg	4%	
*The % Daily Value tells you how much a nut	rient in a	





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26 Non-Digestible Carbs Under Review

- Gum Acacia
- Alginate
- Apple Fiber
- Bamboo Fiber
- Carboxymethylcellulose
- Corn Hull Fiber
- Cottonseed Fiber
- Galactooligosaccharides
- Inulin/Oligofructose/Synthetic Short Chain Fructooligosaccharides
- Karaya Gum

- Oat Hull Fiber
- Pea Fiber
- Polydextrose
- Potato Fibers
- Pullulan
- Rice Bran Fiber
- High Amylose Corn/Maize Starch (Resistant Starch 2)
- Retrograded Corn Starch (Resistant Starch 3)
- Resistant Wheat and Maize Starch (Resistant Starch 4)

- Soluble Corn Fiber
- Soy Fiber
- Sugar Beet Fiber
- Sugar Cane Fiber
- Wheat Fiber
- Xanthan Gum
- Xylooligosaccharides



Last updated Page Last Updated: 01/06/2017

https://www.fda.gov/food/ingredientspackaginglabeling/labelingnutrition/ucm528582.htm





Dietary Fiber in Genesis

	_	Ingredient: bar, gra	nola, mix	
Ingredient Nutrients	* %DV based on US Label 2016 standards Nutrient values based on 100.000000 g	grams		
Yields/Measures	Nutrients	Value		
Cost	Starch (g)			
Groups	Total Dietary Fiber (g)	15.000000		
Groups	Total Soluble Fiber (g)	10.000000		Label
Ingredient Statement	Total Insoluble Fiber (g)	5.000000		Fields
Allergens	Dietary Fiber (2016) (g)	10.000000		
Audits	Soluble Fiber (2016) (g)	5.000000		
	Insoluble Fiber (2016) (g)	5.000000		New 2016
	Other Dietary Fiber (2016) (g)	5.000000		Lahel
	Other Soluble Fiber (2016) (g)	5.000000		
	Other Insoluble Fiber (2016) (g)	0		Fields
	Total Sugars (g)	34.270000		
	Added Sugar (g)			
	Show All Nutrients	🗖 Auto C	alculations	
		Not seeing the new F	iber fields?	
		Change your Nutrien check "Show All Nutr	ts to View o rients"	r

Fill in Missing Data

Nutri Serving Size Servings Pe	tion 2/3 Cup r Containe	Fa	cts ₃
Amount Per Se	rving		
Calories 19	0 Calo	ories fron	n Fat 90
		% Da	aily Value*
Total Fat 10	g		15%
Saturated	Fat 6g		30%
Cholestero	30mg		10%
Sodium 65r	ng		3%
Total Carbo	hydrate 2	25g	8%
Dietary Fi	ber 1g		4%
Sugars 22	2g		
Protein 3g			
Vitamin A 8% Calcium 10%	% •V % •Ir	itamin C on 4%	2%
*Percent Daily V diet. Your daily v depending on yo	alues are bas alues may be our calorie ne Calories:	sed on a 2,0 e higher or l eds: 2,000	000 calorie ower 2,500
Total Fat Saturated Fat Cholesterol Sodium Total Carbohydra Dietary Fiber	Less than Less than Less than Less than ate	65g 20g 300mg 2,400mg 300g 25g	80g 25g 300mg 2,400mg 375g 30g
Calories per gran Fat 9 • 0	m: Carbohydrate	e 4 • Prote	ein 4

About 3 servings per co	ontainer
Serving size	2/3 Cup
Amount per serving	400
Calories	190
9	6 Daily Value
Total Fat 10g	13%
Saturated Fat 6g	30%
Cholesterol 30mg	10%
Sodium 65mg	3%
Total Carbohydrate 25g	9%
Dietary Fiberg	9
Total Sugars 22g	
Includes 15g Added Sug	ars 30%
Protein 3g	
Vitamin D 0mcg	0%
Calcium 96mg	8%
Iron 1mg	6%
Potassium 220mg	4%

serving of food contributes to a daily diet. 2000 calories a day is used for general nutrition advice.

Fat 9 • Carbohydrate 4 • Protein 4

Missing Mandatory Nutrients are displayed here with a dashed line – NOT COMPLIANT

NOTE: If only 1 out of 9 of your ingredients contain the required dietary fiber information only that one ingredient's dietary fiber nutrients will appear on the label. Potentially showing inaccurate results on the Nutrition Facts Panel.



ADDED SUGARS

noun | add·ed su·gars | \'a-dəd 'shù-gərs\

: a statement of the number of grams of added sugars in one serving of a food

DEFINITION

Sugars that are either added during the processing of foods or packaged as such and includes sugars (free, mono- and disaccharides), sugars from syrups and sugars concentrated from fruit or vegetable juices that are in excess of what would be expected from the same volume of 100% fruit or vegetable juice of the same type.

ALWAYS CONSIDERED ADDED

added sugars

Corn Sweetener Molasses Sugar



NOT CONSIDERED ADDED

Honey

Syrup

Naturally occuring sugars in: Dairy products Vegetables Grains

THESE REQUIRE SPECIAL CONSIDERATION

Juice concentrates -

Example: concentrate added to any product, when sugar content would exceed sugar in same volume of same type of juice concentrate is added sugar. Purees/Pastes, Sugars after fermenting, Corn syrup solids

MANDATORY NUTRIENT

Grains DV: 50g. Not to exceed 10% of total calories. ON THE LABEL Added Sugars are indented

and listed under Total Sugars.

Rounding Rules:

- Less than 1 g: declaration not required with insignificant footnote or you can show "less than 1 g" or "< 1 g" on the label.
- Less than .5 g: may be expressed as zero

NUTRITION F 1 serving per container	
	up (1409)
Calories	160
% E	Daily Value*
Total Fat 8g	10%
Saturated Fat 3g	15%
<i>Trans</i> Fat 0g	
Cholesterol 0mg	0%
Sodium 60mg	3%
Total Carbohydrate 21g	8%
Dietary Fiber 3g	11%
Total Sugars 15g	
Includes 5g Added Sugars	s 10 %
Protein 3g	
Vitamin D 5mcg	25%
Calcium 20mg	2%
ron 1mg	6%
Potassium 230mg	4%





FDA Draft Nonbinding Recommendations



[†] Sugars added to improve the palatability of naturally tart cranberries. The 2015-2020 Dietary Guidelines for Americans state that that there is room for limited amounts of Added Sugars in the diet, especially from nutrient dense food like naturally tart cranberries. Consider Nonlinding Recommendations Display Non for Information The Declaration of Added Sugars on Honey, Maple Syrup, and Certain Cranberry Products: Guidance for Industry Draft Guidance The patience in being distributed for communit purposes only.

Although you can contenst on any galalaces at any time (see $21 \, \mathrm{GFR}$ 10.115(g)(5)), to sume the FDA containty your contained to the data galaxies before we hope work on the final version of the galaxies, shahelt elder electronic or written contained are the dot any shahelt data of the data of the FA data T aligness of the notion associating the smillelity of the dwit galaxies, fishelt electronic containts to final three the first state of the first state of the state associating the smillelity of the dwit galaxies, fishelt electronic containts to final three models are also been associated and the first state of the state association that three models are also been associated as the first state of the data state of the data state 2005. All concents should be identified with the dotest number FDA-2013-D-0075 listed is the notice of entrability that publishes in the Faderal flagster.

For questions regarding this draft document contact the Center for Food Safety and Applied Nutrition (CFSAN) at 240-402-1450.

> U.S. Department of Health and Human Services Food and Drug Administration Center for Food Safety and Applied Nutrition

"Given the concerns outlined earlier regarding the added sugars declaration on pure honey, pure maple syrup, and certain cranberry products described here (dried cranberries and cranberry juice sweetened with added sugars that provide an amount of total sugars in a serving that does not exceed the level of total sugars in a serving of a comparable product with no added sugars), we intend to exercise enforcement discretion for such products to use a "†" symbol immediately following the added sugars percent Daily Value"

16 convince per container	
Servings per container	(21a)
Serving size 1 1bsp.	(219)
Amount nex conding	
Calorioc	60
Calories	00
% Da	lly Value*
Total Fat 0g	0%
Saturated Fat 0g	0%
Trans Fat 0g	
Cholesterol Omg	0%
Sodium 0mg	0%
Total Carbohydrate 17g	6%
Dietary Fiber 0g	0%
Total Sugars 17g	
Includes 17g Added Sugars	34%1
Protein 0g	
Vitamin D 0mog	0%
Calcium 0mg	0%
Iron 0mg	0%
Potassium 0mg	0%
* The % Daily Value (DV) tells you how much a	nutrient in

a serving of food contributes to a daily diet. 2,000 calories a day is used for general nutrition advice.

† All these sugars are naturally occurring in honey.

Total vs. Added Sugar

Recipe: Fruit Cup plus 10 g a	pple j ×				
Recipe Information					×
Recipe	*%DV based on US Label 2016 standards.				
Nutrients	Nutrient values based on 100.00 gram:	3			Total Sugars: Includes both
Measures	Nutrients	Value	% DV	Override ^	noturally accurring and added
Brix Calculation	Insoluble Fiber (2016) (g)				naturally occurring and added
Cost	Other Dietary Fiber (2016) (g)	0			sugar.
-	Other Soluble Fiber (2016) (g)	0			
Groups	Other Insoluble Fiber (2016) (g)	0			
Compare To	Total Sugars (g)	12.097924			
Preparation Method	Added Sugar (g)	3.450000	6.900000		
Nutrient Content Claims	Monosaccharides (g)	2.180640			
Notes	Galactose (g)	0.017994			Added Sugars: From empty
140.000	Glucose (g)	2.852802			Colorio ingradiante such as
	Fructose (g)	4.869844		_	Calorie ingredients such as:
	Disaccharides (g)	3.199287			sugar, honey, high fructose corn
	Lactose (g)	0			syrup, etc.
	Sucrose (g)	4.005314			Nived foods may contain Added
	Maltose (g)	0.023970			Ivilked loous may contain Added
	Other Carbs (g)	0.561000			Sugars.
	Net Carbs (g)	14 648924		~	
	Show All Nutrients	ow Analysis Overrid	e 🗌 /	Auto Calculations	
	Decimal Places: 🔋 🚔	Check <u>D</u> ata (Cal	Iculate Nutrients	

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noun | racc | \'rak\

: reference amounts customarily consumed

DEFINITION

Serving sizes of foods that can be reasonably consumed at one eating occasion. These have recently been updated to reflect real-world consumption. A RACC table can be found in the Code of Federal Regulations, 21CFR101.12.

Nutrition Fa	cts							
2 Servings Per Cor	tainer							
Serving size 12 fl oz (360 ml)								
Calories		per serving	300					
	% D	aily Value*	% Daily Value*					
Total Fat	1g	1%	2g	3%				
Saturated Fat	0g	0%	0g	0%				
<i>Trans</i> Fat	0g		0g					
Cholesterol	0mg	0%	0mg	0%				
Sodium	10mg	0%	20mg	1%				
Total Carbohydrate	38g	14%	76g	28%				
Dietary Fiber	0g	0%	0g	0%				
Total Sugars	37g		73g					
Includes Added Sugars	35g	70%	70g	140%				
Protein	0g		0g					
Vitamin D	0mcg	0%	Omcg	0%				
Calcium	4mg	0%	7mg	0%				
Iron	0mg	0%	0mg	0%				
Potassium	18mg	0%	37mg	0%				

2,000 caloriés a day is used for general nutrition advice.





USING RACC TO DETERMINE DUAL COLUMN USAGE

With the new rules, containers that hold between 2 and 3 servings of a food may now need to show a Dual Column label to show nutrition information for a single serving and per the whole container. To determine this, check the determined serving size for your product. If your package weighs at least 200 percent and up to and including 300 percent of the applicable reference amount, you need to use the Dual Column label.

Recipe

RACC Changes Overview





Carbonated/Non Carbonated Beverages

- 360 mL 12 fl oz (old 240 mL 8 fl oz)
- Does not include milk, fruit juices, fruit drinks, and vegetable juices

Hard/Powdered/Liquid Candies

- 15 mL for liquid candies
- 15 g for all others (old 15g)

Prepared Coffee/Tea Flavored/Sweetened

• 360 mL - 12 fl oz (old 240 mL - 8 fl oz)

Breakfast Cereals Weighing 20 g - 43 g Per Cup

• 40g (old 30g)

Breakfast Cereals Weighing 43 g Per Cup

• 60g (old 55g)

Pie Crust/Pastry Sheets

 The allowable declaration closest to an 8 square inch surface area (old 1/6 of 8"; 1/8 of 9" crust)

Fruits Used Primarily as Ingredients

- Avocado 50g (old 30g)
- Others (cranberries, lemon, lime) 50g (old 55g)



RACC Changes Overview





Cake Frostings/Icings

• 2 Tbsp (old 35g)

Fish/Shellfish/Game Meat Canned

• 85g (old 55g)

Ice Cream/Frozen Desserts/Frozen Fruit Juices

- Includes the volume for coatings and wafers
- 2/3 cup (old 1/2 cup)

Milk/Milk Substitutes/Fruit Juice Concentrates

- e.g., drink mixers, frozen fruit juice concentrate, sweetened cocoa powder)
- Amount to make 240 mL drink (without ice)

Yogurt

• 170g (old 225g)

Sugar

• 8g (old 4g)



Yogurt RACC Change Example

Excellent

Source of

Calcium

225 g RACC & Serving Size Nutrition Facts Serving Size 1 Container (225g)

Calories 17	D Calo	ories fron	n Fat 10			
		% Da	aily Value*			
Total Fat 1g			2 %			
Saturated	Fat 0g		0%			
Trans Fat	0g					
Cholesterol	10mg		3%			
Sodium 75n	ng		3%			
Total Carbo	hydrate 2	23g	8 %			
Dietary Fiber 1g 4%						
Sugars 21	g					
Protein 19g						
Vitamin A 0%	6 • V	itamin C	0%			
Calcium 20%	6 • Ir	on 0%				
*Percent Daily V diet. Your daily v depending on yo	alues are bas alues may be ur calorie ne Calories:	sed on a 2,0 e higher or l eds: 2,000	000 calorie ower 2,500			
Total Fat Saturated Fat	FatLess than65g80gurated FatLess than20g25gssterolLess than300mg300mgumLess than2,400mg2,400mgCarbohydrate300g375gtary Fiber25g30g					

NUTRITION Fa Serving size 1 Container	l CtS r (170g
Amount per serving Calories	130
% Da	ily Value
Total Fat 0.5g	1%
Saturated Fat 0g	0%
<i>Trans</i> Fat 0g	
Cholesterol 5mg	2%
Sodium 60mg	3%
Total Carbohydrate 17g	6%
Dietary Fiber 1g	4%
Total Sugars 16g	
Includes 10g Added Sugars	20%
Protein 14g	14%
Vitamin D 0mcg	0%
Calcium 155mg	10%
Iron Omg	0%
Potossium 210mg	4%



- RACC changes may affect Nutrient Content Claims
- Be sure to evaluate your entire package when updating labels with RACC changes



Dual Column Labeling

Nutrit	ior	n F	ac	ts
2 servings per co	ntainer			
Serving size		1	cup (255g)
Calories	Per s	erving 20	Per cor 4	1tainer 40
		% DV*		% DV*
Total Fat	5g	8%	10g	15%
Saturated Fat	2g	10%	4g	20%
Trans Fat	0g		0g	
Cholesterol	15mg	5%	30mg	10%
Sodium	240mg	10%	480mg	21%
Total Carb.	35g	12%	70g	23%
Dietary Fiber	6g	21%	12g	43%
Total Sugars	7g		14g	
Incl. Added Sugars	4g	8%	8g	16%
Protein	9g		18g	
Vitamin D	5mcg	25%	10mcg	50%
Calcium	200mg	15%	400mg	30%
Iron	1mg	6%	2mg	10%
Potassium	470mg	10%	940mg	20%

The % Daily Value (DV) tells you how much a nutrient in a serving of food contributes to a daily diet. 2,000 calories a day is used for general nutrition advice.

- Required on packages that can be consumed in one or multiple sittings
- Nutrition information presented per serving and per package
- For packages that contain 200% and up to and including 300% of the RACC
- A 3oz (90g) bag of chips would be labeled per serving [1oz (30 g)] and per package [90 g]



Dual Column Exemptions

- Products that meet the requirements for tabular format
- Raw fruits, vegetables and seafood that provide voluntary labeling/advertising or when claims are made
- Products that require further preparation (e.g. pancake mix) and voluntarily provide an additional column "as prepared"
- Products that are commonly consumed in combination with another food (e.g. cereal and milk)
- Products that provide additional column for two or more groups (e.g. infants and children less than 4 years)
- Popcorn (e.g. one column for popped)
- Varied weight products (e.g. cheeses sold at random weights)

Documentation



- As a prudent manufacturer documentation is and has always been a great standard to strive for.
- Document how you arrived at your nutritional information.
- Attach document files to your recipes and ingredients in Genesis R&D.
- Documentation examples:
 - supplier spec sheets
 - analyses of nutrient databases
 - recipes or formulations
 - batch records
 - Any other records that contain the required information



Documentation



- When a laboratory test is not available to decipher sources, the following documentation is required:
- Beneficial vs. non beneficial dietary fiber or a combo
 - Including soluble and insoluble
- Total vs added sugar or a combo
 - Especially when added sugars are subject to non-enzymatic browning and/or fermentation and the manufacturer is declaring less added sugar than was added to the original recipe

Spreadsheet Report

Search for Missing Values/Documentation

Recipe: SAMPLE,	Fruit Salad	Spreadsheet: S	AMPLE, Fruit Sal	ad 🗙							
Item Name	Quantity	Measure	Cals (kcal)	Prot (g)	Carb (g)	Fib(16) (g)	Sugar (g)	SugAdd (g)	Fat (g)	SatFat (g)	TransFat ((
SAMPLE, Fruit Salad	1	Serving	115.861969	1.5	15.179023	1.811876	11.346147	0	6.38	2.4789	
peaches, fresh, sliced	0.1	Сир	6.006000	0.1	1.469160	0.222826	1.246334	0	0.03	0.0029	
walnuts, english, dried, chopped	0.05	Cup	38.259000	0.8	0.802035	0.391950	0.152685	i 0	3.81	0.3583	
banana, fresh, ₄ medium, 7" to 7 7/8"	0.1	Each	10.502000	0.1	2.695120	0.306800	1.443140	0	0.03	0.0132	
apple, fresh, small, 2 3/4"	0.1	Each	7.748000	0.0	2.057690	0.357600	1.548110	0	0.02	0.0041	
grapes, seedless, fresh, thompson	0.1	Сир	10.419000	0.1	2.733100	0.135900	2.337480	0	0.02	0.0081	
pears, canned, halves, in juice	0.1	Cup	12.400000	0.0	3.209120	0.396800	2.405600	????	0.01	0.0009	
whipped topping, frozen, semi solid	0.15	Сир	30.527969	0.1	2.212798	0	2.212798	????	2.42	2.0911	??
■Total % Recommen (US Label Adult (2016))	1	Serving	115.861969	1.5 3.0	15.179023 5.519645	1.811876 6.470985	11.346147	0	6.38 8.19	2.4789 12.394	

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Best Practices for Transition to 2016 Label



- Did formulas or ingredients change?
- Did the RACC change?
- Does your package require a dual column based on 200% 300% RACC?
- Are your nutrient content claims supported on your 2016 labels?
- Use Spreadsheet report find and populate missing nutrient values
- Contact suppliers for updated information that supports 2016 labels
- Calculate and document Added Sugars value in ingredients and/or finished products
- Review Dietary Fiber information and document sources

Genesis R&D Training



Genesis Professional Training | April 25-26, 2018 | San Diego, CA This training session covers the fundamentals of the Genesis R&D Food program: creating ingredients, building recipes/formulas, obtaining nutrition analysis, analysis reporting, best practices, and basic labeling features.

Genesis Professional Training | May 9-10, 2018 | Oak Brook, IL This training session covers the fundamentals of the Genesis R&D Food program: creating ingredients, building recipes/formulas, obtaining nutrition analysis, analysis reporting, best practices, and basic labeling features.

Genesis Professional + Menu Label Training | May 23-24, 2018 | Oak Brook, IL This training session covers ingredient creation and recipe/menu building, best practices, and analysis reporting specific to restaurants, grocery stores, and those who have to comply with the FDA's Menu Labeling regulations. Additionally, we will discuss how Genesis R&D helps you comply with the Menu Labeling regulations.

Learn more: https://www.esha.com/news-events/training-schedule/

QUESTIONS?



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