Science for Compliance

ILC MICRO-CHEM, INC.

ISSUE 2 SEPTEMBER 2016 PAGE 1 OF 2

CONTACT US

ILC Micro-Chem, Inc.
6535 Millcreek Drive
Unit 62, Mississauga, ON, L5N 2M2

Telephone
905-858-8630

Toll Free
(800) 668-1958

Fax
905-858-0771

ISO/IEC 17025: 2005 accredited through the Standards Council of Canada (SCC)

Visit our website for information on the services that we can provide for you and for our full scope of SCC accredited methods: www.ilc.micro-chem.com

SCC Accredited LAB

Public Health Agency of Canada Pathogen and Toxin License

Public Health Agency of Canada / Agence de la santé publique du Canada

Changes to the U.S. Nutrition Facts Label

Consumers can now make better informed decisions about the foods they eat and feed their families with the new U.S. Nutrition Facts Label.

On May 20, 2016, the FDA announced the new Nutrition Facts label for packaged foods to reflect new scientific information, including the link between diet and chronic diseases such as obesity and heart disease.
The FDA published the final rules in the Federal Register on May 27, 2016.

The old label was more than 20 years old and it was revised to include some improvements to the format to provide some significant public health information. Changes include:

- Highlighting calories, servings per container and the serving size
- Manufacturers declaring actual amounts, in addition to percent Daily Value, of the mandatory vitamins and minerals
- Adding "Includes X g Added Sugars" below the listing for "Total Sugars"
- Changing the footnote to better explain the percent Daily Value

SIDE-BY-SIDE COMPARISON

Original Label

Nutrition Facts
Serving Size 2/3 cup (55g)
Servings Per Container About 8

Amount Per Serving
Calories 230 Calories from Fat 72

	% Daily Value*
Total Fat 8g	**12%**
Saturated Fat 1g	**5%**
Trans Fat 0g	
Cholesterol 0mg	**0%**
Sodium 160mg	**7%**
Total Carbohydrate 37g	**12%**
Dietary Fiber 4g	**16%**
Sugars 1g	
Protein 3g	
Vitamin A	10%
Vitamin C	8%
Calcium	20%
Iron	45%

* Percent Daily Values are based on a 2,000 calorie diet. Your daily value may be higher or lower depending on your calorie needs.

	Calories:	2,000	2,500
Total Fat	Less than	65g	80g
Sat Fat	Less than	20g	25g
Cholesterol	Less than	300mg	300mg
Sodium	Less than	2,400mg	2,400mg
Total Carbohydrate		300g	375g
Dietary Fiber		25g	30g

New Label

Nutrition Facts
8 servings per container
Serving size **2/3 cup (55g)**

Amount per serving
Calories **230**

	% Daily Value*
Total Fat 8g	**10%**
Saturated Fat 1g	**5%**
Trans Fat 0g	
Cholesterol 0mg	**0%**
Sodium 160mg	**7%**
Total Carbohydrate 37g	**13%**
Dietary Fiber 4g	**14%**
Total Sugars 12g	
Includes 10g Added Sugars	**20%**
Protein 3g	
Vitamin D 2mcg	10%
Calcium 260mg	20%
Iron 8mg	45%
Potassium 235mg	6%

* 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.

Note: The images above are meant for illustrative purposes to show how the new Nutrition Facts label might look compared to the old label. Both labels represent fictional products. When the original hypothetical label was developed in 2014 (the image on the left-hand side), added sugars was not yet proposed so the "original" label shows 1g of sugar as an example. The image created for the "new" label (shown on the right-hand side) lists 12g total sugar and 10g added sugar to give an example of how added sugars would be broken out with a % Daily Value.

ILC Micro-Chem is proactively implementing methods for Vitamin D and Residual Solvents.

Compliance Dates

Manufacturers will have until July 26, 2018 to comply with the final U.S federal requirements. Manufacturers with less than $10 million in annual food sales will have an additional year to comply with the new rules.

Contact ILC Micro-Chem for assistance with all your Canadian and U.S. labelling needs.

For more information about the Changes to the Nutrition Facts Label and the final rules, please visit:
Link: http://www.fda.gov/Food/GuidanceRegulation/GuidanceDocumentsRegulatoryInformation/LabelingNutrition/ucm385663.htm#formats

Facts about *E. coli* 0157:H7

(Extraction from article "What are Shiga toxin producing E. coli (STEC)?"

Some kinds of *E. coli* cause disease by making a toxin called Shiga toxin. The bacteria that make these toxins are called "Shiga toxin-producing" *E. coli* or STEC for short. You might hear these bacteria called verocytotoxic *E. coli* (VTEC) or enterohemorrhagic *E. coli* (EHEC); these all refer generally to the same group of bacteria.
The most commonly identified STEC in North America is *E. coli* O157:H7 (often shortened to *E. coli* O157 or even just "O157"). When you hear news reports about outbreaks of "*E. coli*" infections, they are usually talking about *E. coli* O157.

In addition to *E. coli* O157, many other kinds (called serogroups) of STEC cause disease. Other *E. coli* serogroups in the STEC group, including *E. coli* O145, are sometimes called "non-O157 STECs."

Currently, there are limited public health surveillance data on the occurrence of non-O157 STECs, including STEC O145; many STEC O145 infections may go undiagnosed or unreported.

STEC live in the guts of ruminant animals, including cattle, goats, sheep, deer, and elk. The major source for human illnesses is cattle. STEC that cause human illness generally do not make animals sick. Other kinds of animals, including pigs and birds, sometimes pick up STEC from the environment and may spread it.

Link: http://www.cdc.gov/ecoli/general/index.html#what-are-shiga-toxin

(*Published in The Centres for Disease Control and Prevention web-site).

ILC Micro-Chem, Inc. was awarded a certificate for the 2015 AACC 'most accurate and precise results for dietary fibre analysis'.

Customer Testimonials

"We thought we should let you and your team know that we really do appreciate the excellent customer and technical services we receive from you; we do value our relationship!"
-Quality Assurance Manager, Ontario.

"On behalf of the Quality Assurance Team at <undisclosed customer>, I am very pleased to communicate our satisfaction with the Food and Beverage testing services of ILC Micro-Chem Inc. We have experienced consistent quality results on time and our inquiries are handled professionally. We are well aware of ILC's current scope of accredited Micro-biology and Nutritional Chemistry related testing capabilities. We have compared and found that ILC testing prices are very competitive and their customized consulting and Sample pick up services are unique.
We are pleased to recommend ILC Micro-Chem Labs for your routine and specialized outsourced analytical and consulting requirements."
-Processing Operations Manager, Ontario.

MISSION STATEMENT

ILC Micro-Chem, Inc. is committed to providing the highest quality and most cost-effective product testing services in partnership with the Food, Pet Food, Natural Health Products and other related industries. Using government approved methods and state of the art equipment, our professional staff of scientists and technicians strive to meet the changing needs of our customers. Personal service is our trademark and the foundation of our business. ILC Micro-Chem, Inc. is committed to guaranteed fast turnaround times, personal attention and flexible services that do not compromise the quality of our results. Customer satisfaction is our ultimate goal.

We're on the Web! www.ilcmicro-chem.com

OUR SERVICES

ILC Micro-Chem is ISO/IEC 17025: 2005 accredited through the Standards Council of Canada to provide analyses to Canadian, US and overseas clients. We provide Labelling of Foods, Pet Food Nutritional Profiles, Microbiological and Chemical Analyses, Environmental and Water Analyses, Allergen Testing, Vitamins and Amino Acid Profiles, Shelf-Life Studies, Consultation Services, Quality Assurance Programs, Regulatory Requirements and Plant Inspections.
For more information about our organization and details on the services that we offer, please feel free to visit our website or call us directly.