Food Product Analysis Tool Kit

Nutrition Facts Label Math

- % Calories from Fat = Calories from Fat ÷ Total Calories (30% or less is recommended)
- Complex Carbohydrates (i.e. Other Carbohydrates) = Total Carbohydrates (g) (sugars (g) + fiber (g)) (50% or greater is recommended)
- % Daily Values are to add up to 100% for the day
- 1g protein or CHO = 4 C; 1g fat = 9 C

Ingredients List Information

- Listed in order by weight (most to least)
- Potential allergens identified by the food company are typically bolded/italicized at the end of or beneath the ingredients list
- Can be used to determine if the product likely contains GMO's (e.g. soybean, corn, cotton, canola, wheat, etc. and the derivates from said crops)
- It can identify hidden sugars and trans fats...the nutrition facts label may be misleading regarding these nutrients
- Food Additives—substances added to food intentionally to produce a desired effect:
 - Maintain texture (e.g. gums, waxes, gelatins; hydrogenated = trans fat!)
 - o Increase nutrient content (e.g. vitamins, minerals, protein)
 - Lengthen the storage life (e.g. preservatives, MSG, BHT)
 - Give flavor or color (e.g. natural flavor, Red 4)
 - Control food's acidity (e.g. alkali)
 - Help age food

Ingredients Derived from Corn

- Alpha tocopherol
- Ascorbic acid
- Baking powder
- Calcium stearate
- Caramel
- Cellulose
- Citric Acid
- Citrus cloud emulsion
- Corn flour
- · Corn oil
- Cornstarch
- Corn syrup
- Dextrin
- Dextrose (glucose)
- Diglycerides
- Ethylene
- · Ethyl acetate

- Ethyl lactate
- Fibersol-2
- Fructose
- Fumaric acid
- Gluten
- High fructose corn syrup Treacle
- Inositol
- · Invert sugar

Golden syrup

- Malt
- Maltodextrin
- Margarine
- Monoglycerides
- Polydextrose
- · Monosodium glutamate
 - (MSG)

- Saccharin Semolina
- Sorbic Acid
- Sorbitol Starch
- Sucrose
- Vanilla extract
- White vinegar
- · Xanthan gum
- Xylitol
- Zein

46 names for added sugars

Approximately 90% of

the corn grown in the US

is **genetically modified**

USED IN PROCESSED FOODS AND BEVERAGES:

- 1. Agave
- 2. Barley malt
- 3. Beet sugar
- 4. Blackstrap molasses
- 5. Brown sugar
- 6. Brown rice syrup
- 7. Cane sugar
- 8. Cane juice
- 9. Caramel
- 10. Carob syrup
- 11. Coconut sugar
- 12. Coconut palm sugar
- 13. Confectioner's sugar
- 14. Corn sweetener
- 15. Corn syrup 16. Demerara sugar

- 17. Diatase
- 18. Date sugar
- 19. Dextrin
- 20. Dextrose
- 21. Diastatic malt
- 22. Evaporated cane juice
- 23. Fructose (High fructose corn syrup)
- 24. Fruit sugar
- 25. Galactose
- 27. Glucose
- 28. Grape juice concentrate
- 29. Grape sugar

31. Invert Sugar

- 30. Honey
- 26. Glucomalt
 - 43. Sugar
 - 44. Treacle

32. Lactose

34. Maltose

33. Maltodextrin

35. Maple syrup

36. Palm sugar 37. Raw sugar

38. Rice syrup

40. Saccharose

42. HSucrose

39. Refiner's syrup

41. Sorghum syrup

- 45. Turbinado Sugar
- 46. Xylose

INGREDIENTS: ENRICHED FLOUR (WHEAT FLOUR, NIACIN, REDUCED IRON, THIAMIN MONONITRATE (VITAMIN B₁), RIBOFLAVIN (VITAMIN B₂), FOLIC ACID), CORN SYRUP SUGAR, SOYBEAN AND PALM OIL (WITH TBHQ FOR FRESHNESS), CORN SYRUP SOLIDS, DEXTROSE, HIGH FRUCTOSE CORN SYRUP FRUCTOSE GLYCERIN, CONTAINS 2% OR LESS OF COCOA (PROCESSED WITH ALKALI) POLYDEXTROSE MODIFIED CORN STARCH, SALT, DRIED CREAM, CALCIUM CARBONATE, CORNSTARCH, LEAVENING (BAKING SODA, SODIUM ACID PYROPHOSPHATE, MONOCALCIUM PHOSPHATE CALCIUM SULFATE), DISTILLED MONOGLYCERIDES, HYDROGENATED PALM KERNEL OIL, SODIÚM STEAROYL LACTYLATE, GELATIN, COLOR ADDED, SOY LECITHIN, DATEM, NATURAL AND ARTIFICIAL FLAVOR, VANILLA EXTRACT, Carnauba wax. Xanthan Gum, Vitamin a Palmitate, Yellow #5 Lake, RED #40 LAKE, CARAMEL COLOR, NIACINAMIDE, BLUE #2 LAKE, REDUCED IRON, YELLOW #6 LAKE, PYRIDOXINE HYDROCHLORIDE (VITAMIN B6), RIBO-FLAVIN (VITAMIN B_2), THIAMIN HYDROCHLORIDE (VITAMIN B_1), CITRIC ACID, FOLIC ACID, RED #40, YELLOW #5, YELLOW #6, BLUE #2, BLUE #1.

Green=probable GMO; Yellow=Added Nutrients; Blue=Color; Red=Texture; Purple=Preservative; Orange=Controls Acidity; Pink=Flavor; =Trans Fat; =Hidden Sugar

Food Package Claims and Labels - Defined by the USDA

- Fresh—the food is raw, unprocessed, contains no preservatives and has never been frozen or heated
- Light—calories have been reduced by at least 1/3, or the fat or sodium by at least ½
- Less—the food contains 25% less of a nutrient or of calories than a comparable food
- · -Free—product contains no amount, or only trace amounts, of fat, cholesterol, sodium, sugars or calories
- Healthy—low in fat, saturated fat and limited amounts of cholesterol and sodium
- Natural—minimally processed with no artificial or synthetic ingredients; natural does not mean organic
- **Organic**—no growth hormone/antibiotics used, produced without using most conventional pesticides, fertilizers with synthetic ingredients or sewage sludge, bio-engineering (GMO), or ionizing radiation
- **Gluten-Free**—proteins formed when white, rye, barley and/or crossbred hybrids of such grain flours are mixed with fluids and physically manipulated
- Trans Fat—chemically/enzymatically hydrogenated unsaturated fats; rarely occurring naturally
- **GMO**—genetically modified organism; an organism whose genetic material has been altered to achieve a particular goal or desired effect

