

# Understanding FODMAPs

## What are FODMAPs?

FODMAPs are a group of small carbohydrate (sugar) molecules found in everyday foods. Carbohydrates are made up of carbon, hydrogen and oxygen and provide an important source of energy for the body. FODMAPs are carbohydrates that may be poorly absorbed in the small intestine of some people.

FODMAPs move through the digestive tract to the large intestine (colon), where they can draw water into the colon and are rapidly fermented (digested) by naturally-occurring gut bacteria. The fermentation of FODMAPs produces gas and other by-products.

FODMAP is an acronym for Fermentable – Oligosaccharides – Disaccharides – Monosaccharides – And – Polyols.

It is estimated that 50% of people with IBS may benefit from a low FODMAPs diet, however the quality of scientific evidence is very low. Of these people, there is possible benefit for overall symptoms such as abdominal pain, cramping, bloating, excess gas, constipation and/or diarrhea.

**F**

**Fermentable:** Fermentable carbohydrates are sugars that are broken down and digested by bacteria in our intestines, producing gas and other by-products.

**O**

**Oligosaccharides:** Oligosaccharides are short chains of carbohydrate molecules linked together. Fructans (a chain of fructose molecules) and galacto-oligosaccharides (a chain of galactose molecules) are oligosaccharides that humans cannot break down and properly absorb in the small intestine.

**D**

**Disaccharides:** Disaccharides are two carbohydrate molecules linked together. Lactose, the sugar found in milk and dairy products, is a disaccharide composed of glucose and galactose. Lactose must be broken down by the digestive enzyme lactase before it can be absorbed in the small intestine. In people with lactose intolerance, the level of lactase enzyme is insufficient to properly digest lactose and lactose travels to the colon where fermentation occurs.

**M**

**Monosaccharides:** Monosaccharides are single carbohydrate molecules. Fructose, the sugar found in many fruits and some vegetables, is a monosaccharide and does not require digestion before it is absorbed. When foods containing equal amounts of fructose and glucose are eaten, glucose helps fructose to be completely absorbed. However, when fructose is present in greater quantities than glucose, fructose absorption depends upon the activity of sugar transporters located in the intestinal wall. The ability to absorb excess fructose varies from person to person. In people with fructose malabsorption, the capacity of sugar transporters is limited and excess fructose travels to the colon where fermentation occurs.

**A**

**AND**

**P**

**Polyols:** Polyols, or sugar alcohols, are a type of carbohydrate that humans can only partially digest and absorb in the small intestine. Polyols, such as sorbitol, mannitol, xylitol, maltitol and isomalt, mimic the sweetness of sucrose (table sugar), however, because their absorption is much slower, only a small amount of what is eaten is actually absorbed. Polyols are often used as low-calorie sweeteners in sugar-free and diet products.

# Low FODMAP Grocery

## List:

Keep this list on you and handy as a reference sheet while cooking or making trips to the grocery store. Replace any high-fodmap foods you may have been eating with these items instead. This is just a basic list, remember to always work with a registered dietitian while on this diet.

### Vegetables

Aubergine/  
eggplant  
beans (green)  
bok choy  
bell pepper  
carrot  
cucumber  
lettuce  
potato  
tomato  
zucchini

### Fruits

Cantaloupe  
grapes  
kiwi fruit  
mandarine oranges  
pineapple  
strawberries

### Dairy & Alternatives

Almond milk	hard cheeses:
brie/camembert	cheddar
feta cheese	parmasean
lactose free milk	swiss
soy milk	mozzarella

### Breads & Cereals

Corn flakes	rice cakes
oats	sourdough
quinoa flakes	spelt bread
quinoa	wheat/
rice	rye/barley
corn pasta	free breads

### Protein Sources

Eggs, firm tofu, plain cooked meats, poultry, seafood, tempeh

### Sugars & Sweeteners

Dark chocolate, maple syrup, rice malt syrup  
table sugar

### Nuts & Seeds

Macadamias, peanuts, pumpkin seeds, walnuts



# Eliminate these foods:

Keep this list on you and handy as a reference sheet while cooking or making trips to the grocery store. Replace any high-fodmap foods you may have been eating with the low FODMAP items listed on the previous page. This is just a basic list, remember to always work with a registered dietitian while on this diet.

## Vegetables

Artichoke  
Asaragus  
cauliflower  
garlic  
green peas  
leek  
mushroom  
onion  
sugar snap  
peas  
sundried  
tomatoes

## Fruits

Apples, apple juice,  
cherries dried fruit,  
mango, nectarines,  
peaches  
pears, plums  
watermelon

## Dairy & Alternatives

Cows Milk	sweetend
custard	condensed milk,
evaporated milk	yoghurt,
ice cream	ricotta cheese
soy milk (made from whole soy beans)	cottage cheese

## Breads & Cereals

Wheat, rye	snack products
barley based	breakfast cereals
breads	biscuits

## Protein Sources

Most legumes/pulses, some marinated meats,  
marinated poultry and seafood,  
some processed meats

## Sugars & Sweeteners

High fructose corn syrup, honey, sugar  
free confectionary

## Nuts & Seeds

Cashews, pistachios



# FODMAP diet & IBS



## Does the FODMAP diet relieve digestive symptoms?

The low FODMAP diet, originally developed in Australia by dietitian, Dr. Sue Shepherd, and gastroenterologist, Dr. Peter Gibson, is increasingly recognized as an effective dietary treatment for IBS. **It is estimated that around 50% of people with IBS may benefit from a low FODMAPs diet, however, the quality of scientific evidence for this is very low.** The low FODMAP diet is intended for people with functional bowel disorders, such as IBS, and may provide no benefit for healthy individuals.

## Partnering for best health

Working collaboratively with your health care professional will help you protect your body from digestive diseases and maximize your digestive health. When you report your health status completely, concisely and accurately, your physician can provide you with the best care and treatment plan. Be sure to stay informed on ways to maintain your health and well-being, track and record your symptoms, and write down questions and concerns to discuss at your next appointment.

## Who Should follow a low FODMAP diet?

If you experience any of the symptoms commonly associated with IBS, consult your physician. In addition to other treatments your doctor may recommend, following a low FODMAP diet may be an effective strategy to ease the pain, gas and altered bowel patterns commonly experienced in IBS.

When reducing FODMAPs in the diet, it is important to replace restricted foods with nutritious alternatives and ensure that your diet is healthy and well-balanced. A re-introduction of FODMAP foods should be done gradually to help identify which FODMAPs can be tolerated over the long term.

The low FODMAP diet is best implemented under the supervision of a qualified health care professional, such as a registered dietitian. This diet is a new and evolving area of nutritional science. Additional research into the role of FODMAPs in IBS and the FODMAP content of specific foods is continually emerging. We encourage you to seek additional sources that are supported by recent scientific evidence.

## Journaling

**Keeping track of your symptoms and flares is an important part of managing a functional gut disorder.**

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