

BUSINESS TO BUSINESS INFORMATION



## D-Mannose

Urinary tract infections/cystitis  
Prevents recurrent urinary tract infections /  
cystitis caused by E. coli





# D-Mannose

## Urinary tract infections

Urinary tract infections remain to be a major medical problem in terms of the number of women affected each year. Though antibiotics are often prescribed to treat and prevent urinary tract infections, still there is a high incidence of recurrence of infection. Also the treating effect is diminishing due to increasing development of microbial resistance, especially in long term use of antibiotics.

A urinary tract infection (for example cystitis or bladder infection) is an infection that affects part of the urinary tract.

## What causes urinary tract infections?

The most important cause of urinary tract infections is the intestine bacterium *Escherichia coli* (also known as *E. coli*). The bacterium may penetrate into the urethra and bladder and causes infections.

Very rarely will a urinary tract infection be without symptoms. Complaints of a urinary tract infection may consist of the following:

- A burning or painful feeling during urination
- Urge to urinate
- Frequent urination
- Cloudy and strong smelling urine
- Abdominal pain

The cell wall of *Escherichia coli* bacteria has tiny fingerlike projections that contain complex molecules called lectins on their surface. Lectins act as a cellular glue that binds the bacteria to the bladder wall so they cannot be easily rinsed out by urination, adhering to mannose receptors of the bladder wall.

## The Solution

Lucovital® D-Mannose is designed to support treatment and prevent recurrence of urinary tract infections. It can be used as adjunct therapy for the prevention and symptomatic treatment of urinary tract infections. Lucovital® D-Mannose is soluble in a glass of water (250ml) and is easy to drink because of its nice berry flavour. The capsules and tablets are very easy to swallow.

## Mechanism of action

Lucovital® D-Mannose attaches to *E. coli* bacteria, causing them to stick to each other and preventing them from sticking to the walls of the urinary tract. The neutralized bacteria can then easily be eliminated from the body during urination and is not able to cause any infection anymore. D-Mannose is a simple sugar structurally related to glucose; it is found in several fruits and is also produced in the body. D-mannose, even in large quantities, does not cause any adverse side effects, and cannot be metabolized the way other sugars can, meaning this product is safe for diabetics and others who are avoiding sugar for any reason.

## Claims

- To support the treatment of urinary infections in the bladder (caused by *E. coli*);
- To prevent the recurrence of urinary tract infections;
- To use as adjunct therapy for the prevention and symptomatic treatment of urinary tract infections.

## USP's

- No microbial resistance;
- Medical device Class IIa;
- No side effects;
- Can be used in combination with other medicine (e.g. antibiotics);
- Registered OTC medical claims. Clinically proven to be effective.

## Dosage

We recommend to use 1 sachet, 4 capsules, 4 tablets or 1 effervescent tablet a day for prevention of urinary tract infections. The recommendation to support the treatment of a urinary tract infection is 2 sachets, 6-8 (max.) capsules, 6-8 (max.) tablets or 2 effervescent tablets a day.

### Product information:

Lucovital® D-Mannose sachets

- Outer box
- Instructions for use
- 7, 14, 28 sachets

### Composition:

D-Mannose, Dextrose, Sorbit, Inulin, Tricalciumphosphate, Flavour berry mix, Magnesium, Salts from fatty acids, Stevia.

### Product information:

Lucovital® D-Mannose capsules

- Outer box
- Instructions for use
- 30 caps, 15 per blister

### Composition:

D-Mannose, Hydroxypropylmethylcellulose, Microcrystalline cellulose, magnesium stearate.

### Product information:

Lucovital® D-Mannose Effervescent tablets

- Outer box
- Instructions for use
- 14 effervescent tablets

### Composition:

Citric acid, D-Mannose, Sodium-hydrogencarbonate, Corn starch, Beetroot powder, Polyethylenglycol, Flavoured wild berries, Inulin, Sucralose.

### Product information:

Lucovital® D-Mannose tablets

- Outer box
- Instructions for use
- 30 tablets, 15 per blister

### Composition:

D-Mannose, Microcrystalline cellulose, Hydroxypropylcellulose, magnesium stearate

# Lucovital® D-Mannose sachets, capsules, effervescent tablets & tablets

