



medical devices

# CRANBERRY MEDICAL DEVICE



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## what is the use of the product?

A urinary tract infection (UTI) (also known as acute cystitis or bladder infection) is an infection that affects part of the urinary tract. When it affects the lower urinary tract it is known as a simple cystitis (a bladder infection); symptoms from a lower urinary tract include painful urination and either frequent urination or urge to urinate (or both). E. coli is the cause of 80–85% of urinary tract infections, with Staphylococcus saprophyticus being the cause in 5–10%. The bacteria that cause urinary tract infections typically enter the bladder via the urethra.

However, infection may also occur via the blood or lymph. It is believed that the bacteria are usually transmitted to the urethra from the bowel, with females at greater risk due to their anatomy. After gaining entry to the bladder, E. Coli are able to attach to the bladder wall and form a biofilm that resists the body's immune response. More and more patients, to prevent or assist in the treatment of these infections, seek help in products made from cranberry (*Vaccinium macrocarpon*).

The classification of the product as a medical device, instead of food supplement, would allow to claim the efficacy in urinary infections.

## mechanism of action

The bacteria responsible for urinary infections join to the mucosa of the urinary tract and multiply. Cranberry, functional substance of this medical device, blocks the adhesion of bacteria to the urinary tract and in this way the bacteria are no longer able to multiply.

## different dosage forms

### Sachets:

72 mg PAC / dose

36 mg PAC / dose

### Tablets:

72 mg PAC / dose

36 mg PAC / dose

18 mg PAC / dose

### Capsules:

72 mg PAC / dose

36 mg PAC / dose

18 mg PAC / dose



## new formula with cranberry and probiotic strain (in vitro tested)

### RAW MATERIAL: CRANBERRY 15% BL-BMAC METHOD

The BL-DMAC method was published after an international lab-validation and was backed up by the U.S. cranberry industry, the Cranberry Marketing Committee of the USA, who financed the study, and the Cranberry Institute.

With some cranberry product testing methods, overestimation of up to five times the PAC level have been reported.

## REFERENCES

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