

# dMannosa®

D-Mannose with cranberry extract

Relief you  
can trust  
for UTIs



Lagap

Lagap SA, via Morosini 3, 6943 Vezia / Switzerland

# A Balanced Alternative for UTIs Prevention and Treatment

## Urinary tract infections (UTIs) Facts:

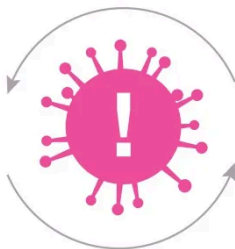
- One of the leading cause of morbidity and healthcare expenditure in persons of all ages
- An estimated 50% of women report having had a UTI at some point in their life
- 8.3 Million office visits and more than 1 Million hospitalizations for an overall cost more than 1 Billion (USA)
- Cystitis (bladder infection) represents the majority of these infections caused by E.Coli (90%)

The **1<sup>st</sup> conventional treatment**  
of UTI's is **antibiotics** which can lead to  
a **high risk** of **antibiotic resistance**

**The more UTI infections one has endured, the more likely it is to recur.**

- *20% of women who have one infection will have a recurrence*
- *30% will have a third occurrence*
- *80% have additional recurrences <sup>2</sup>*

## Recurrent UTIs:



Infection Relapse Rate of:



2 symptomatic episodes  
within 6 months



3 symptomatic episodes  
within 12 months

**A Natural Approach to UTIs Prevention and Treatment should be considered as an alternative.**

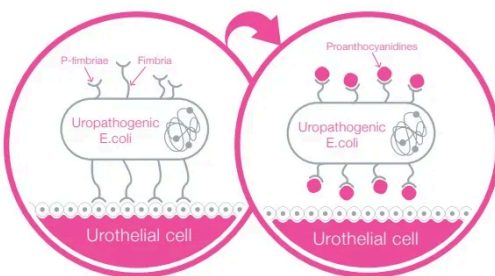
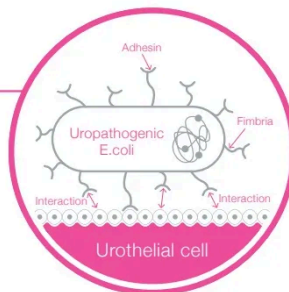
<sup>1</sup> (Brusch, October 10<sup>th</sup> 2017)

<sup>2</sup> (Head, 2008)

dMannosa® **COMBINES TWO SYNERGISTIC FUNCTIONAL COMPOUNDS** which prevent the adhesion of E.coli to the Urothelium cell wall: D-Mannose (2g) + Cranberry extract (50mg)

## Attachment of Bacteria to Urothelium

- E.coli has hair-like **protruding fimbria** on their surface
- Fimbria produces 2 adhesins:
  - 1- Mannose sensitive "type 1 pili" which attaches specifically to D-Mannose
  - 2- Mannose resistant adhesion "P-fimbriae" which attaches to PAC<sup>3</sup> in cranberry
- Through these adhesins, bacteria attach to the specific receptors on urothelial cells



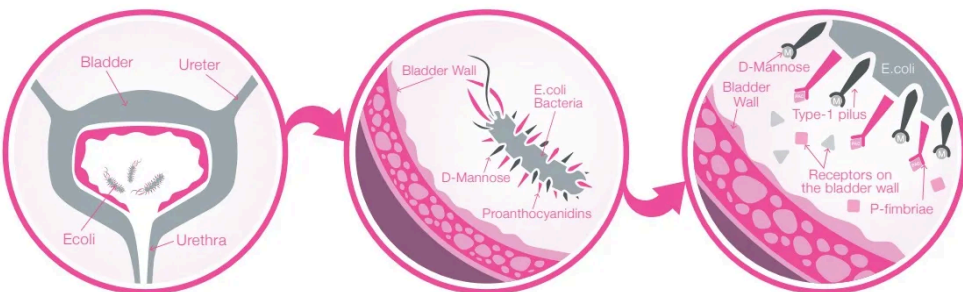
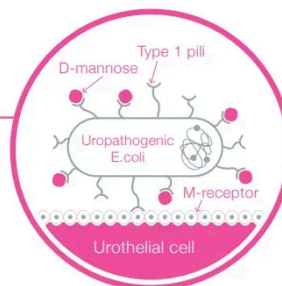
## Mechanism of Action of Cranberry

PAC<sup>3</sup> From cranberry inhibits the mannose-resistant adhesins (P-fimbriae) of uropathogenic E.coli.

## Mechanism of Action of D-Mannose

D-Mannose binds to the type 1 pill of bacteria blocking their adhesion to urothelial cells.

- 90% of ingested D-Mannose is absorbed promptly excreted unchanged in the urine.
- The Adhesin type 1 pili of the E.coli will increasingly become occupied by free D-Mannose, resulting in these bacteria losing their adhesive properties.
- The abundance of free D-Mannose will cause the bacteria to detach from the urothelial cells, resulting in preventing new invasions.



**Once dMannosa is taken, the effect of the E.coli bacteria is inactivated (neutralized), and will be flushed out with the urine**

<sup>3</sup> (PAC: naturally occurring compound in cranberry extract called Proanthocyanidins)

# dMannosa® is a new and effective method of alleviating UTIs including cystitis for both treatment and prevention.

- dMannosa® is clinically proven to be as effective as antibiotics<sup>4</sup> in recurrent UTIs.
- dMannosa®, contrary to antibiotics, causes no bacterial resistance hence, it is safe in long term use. The combination of d-mannose and cranberry extract enhances the elimination of e-coli bacteria.
- dMannosa® supports maintaining healthy UT functions and does not cause imbalance of normal body microflora.
- D-Mannose is a simple sugar found in many fruit and occurring naturally in the human body. Therefore it is not metabolized like other sugars and does not affect the blood sugar levels. D-Mannose is safe for diabetic patients even if taken in large quantities.
- There is no added sugar and no preservatives.
- dMannosa® is natural and gluten free.

<sup>4</sup> (Kranjcec, 2014)



**dMannosa®**  
D-Mannose with cranberry extract

## Recommendations

**Days 1,2,3**  
**3 sachets**  
**per day**



**Days 4,5**  
**2 sachets**  
**per day**



**For acute uncomplicated bacterial cystitis, the following dosage is recommended:**

The sachets should be dissolved in water and consumed throughout the day at regular intervals

**In support of urinary tract disorders, it is recommended to use 1 sachet per day**

dMannosa® can also be used as an adjunct therapy with antibiotics for the symptomatic treatment of UTIs.