

SUPERBIOTIX™ UTS



A BACTERIOPHAGE-BASED NUTRACEUTICAL FOR URINARY HEALTH

ABOUT SUPERBIOTIX™ UTS: SuperBiotix™ UTS, a revolutionary new proprietary formula containing cranberry extract and lytic bacteriophages, is intended for use as a dietary ingredient to help maintain healthy gut and urinary tract microflora and to increase resilience against UPEC – a subset of *Escherichia coli* associated with an unhealthy urinary tract. The product contains cranberry extract with clinically proven effective amounts of the active ingredient proanthocyanidins (PAC) (Figure 1 inset) as well as naturally occurring lytic bacteriophages with strong natural abilities to encourage beneficial microbiome communities. PACs promote urinary tract health through many mechanisms including inhibiting UPEC attachment, motility, and biofilm formation ^{1,2}. Bacteriophages have been used for over 100 years as natural microorganisms for supporting a healthy, balanced microbiome ³. This unique SuperBiotix™ UTS combination can remove more than 99.999% of UPEC in an *in vitro* simulated gut system as shown in laboratory studies (Figure 1).

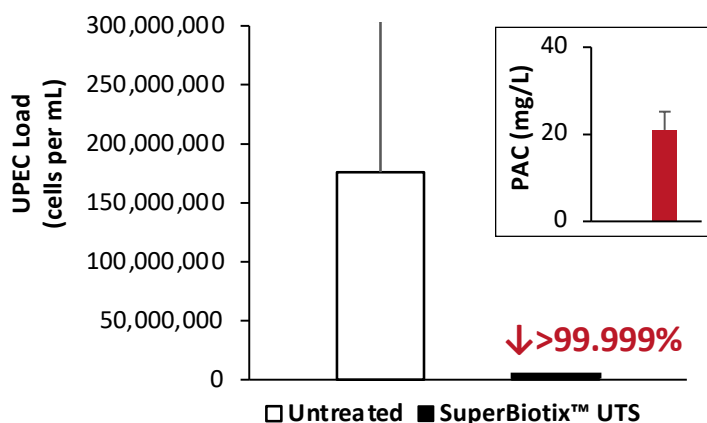


Figure 1. Amount of UPEC (ECOR14, ECOR collection, National Food Safety and Toxicology Center, MI State Univ) remaining in a simulated human gut 18 h after treatment. **SuperBiotix™ UTS removes >99.999% of UPEC compared to the untreated controls.**

REFERENCES: ¹Gbinigie, O. A.; Spencer, E. A.; Heneghan, C. J.; Lee, J. J.; Butler, C. C., Cranberry extract for symptoms of acute, uncomplicated urinary tract infection: a systematic review. *Antibiotics (Basel)* 2020, 10 (1); ²Di Martino, P.; Agniel, R.; Gaillard, J. L.; Denys, P., Effects of cranberry juice on uropathogenic *Escherichia coli* in vitro biofilm formation. *J Chemother* 2005, 17 (5), 563-565.; ³Sulakvelidze, A.; Kutter, E., Bacteriophage therapy in humans. In *Bacteriophages: Biology and Application*, Kutter, E.; Sulakvelidze, A., Eds. CRC Press: Boca Raton, FL, 2005; pp 381-436.

SUPERBIOTIX™ UTS BENEFITS

- 100% all-natural (non-GMO)
- Contains a proprietary synergistic combination of naturally occurring lytic bacteriophages and PAC that together increase resilience of the urinary tract
- Helps maintain a healthy urine pH
- Supports the immune response and normal function of the urinary tract
- Helps to reduce oxidative stress and helps maintain proper urinary tract function.

These claims have not been evaluated by the Food and Drug Administration. SuperBiotix™ UTS is not intended to cure, prevent, diagnose, or treat any disease.



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