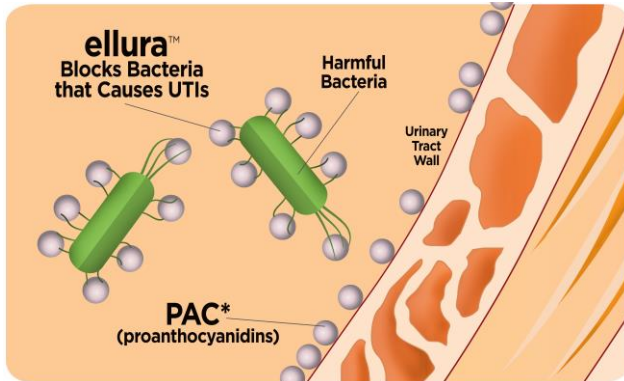


## ellura<sup>®</sup> protects against various pathogens

36 PAC (proanthocyanidins) bacterial anti-adhesion activity (AAA)



If the bacteria exhibits P-fimbriae, coverage is possible. If the bacteria does not exhibit P-fimbriae, there is no coverage. Challenging cases not responding to **ellura** may involve these pathogens.

### Primary Coverage

- **E. coli / Multiple Resistant**<sup>9,14,16, 21,22</sup> – present in ~90% of UTIs
- *Enterococcus faecalis*<sup>24,25</sup>
- *Helicobacter pylori* (*H.pylori*)<sup>5, 6, 19,23</sup>
- *Klebsiella pneumoniae*<sup>4,7,8,21</sup>
- Methicillin-Resistant *Staphylococcus aureus* (MRSA)<sup>10</sup>
- *Proteus* spp (*P. mirabilis*, *P. vulgaris*, *P. penneri*, and *P. hauseri*)<sup>4,7,8,21</sup>
- *Pseudomonas aeruginosa*<sup>1,2,3,4,7,8, 21</sup>
- *Salmonella typhimurium*<sup>4,7,8,21</sup>
- *Staphylococcus aureus*<sup>1,2,3,4,7,8,16, 21,22</sup>
- *Staphylococcus epidermidis*<sup>15,16</sup>

### Most Covered

- *Proteus mirabilis*<sup>4,7,8</sup> – More than 85% grow P-fimbriae  
Causes ~90% of *Proteus* infections

### Some Covered

- *Klebsiella oxytoca* & *Klebsiella pneumoniae*<sup>4,7,8</sup> – Approximately 30% grow P-fimbriae
- *Enterobacter aerogenes* - Rod-shaped, Gram-negative bacterium that may or may not have P-fimbriae
- *Serratia Marcescens* - *Serratia Marcescens* strains can have both mannose-resistant (MR) and mannose-sensitive fimbriae.<sup>17</sup> ellura is active against mannose-resistant fimbriae.<sup>18</sup>

*Candida albicans* (dimorphic fungus) - PACs have excellent *in vitro* activity against *C. albicans* biofilm formation in artificial urine. Preliminary evidence that cranberry PAC activity against *C. albicans* biofilm formation is due to anti-adherence properties and/or iron chelation.<sup>20</sup>

*In vitro* observations point to coverage of bacteria that have P-fimbriae.

## Supporting References

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**Only ellura contains 36 mg PAC<sup>DMAC/A2</sup> (proanthocyanidins) and expresses the highest level of bacterial Anti-Adhesion Activity in a once daily capsule.**