

## Research Work on Antibiosis of KULACTIC for *E.coli* Bacteria

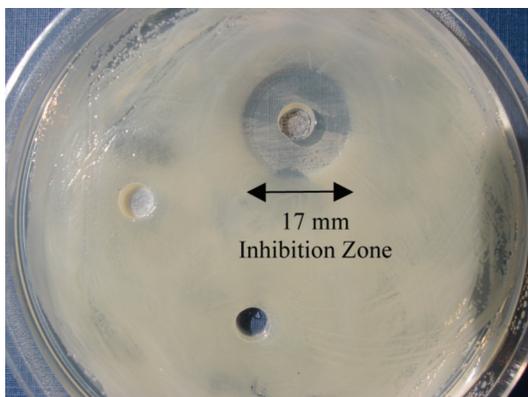
**Introduction:** A study was conducted to examine the ability of KULACTIC<sup>™</sup> to inhibit two common pathogenic strains of *E.coli* bacteria. KULACTIC is a *lactobacillus acidophilus* fermentation solubles product that has been successfully marketed for many years. There is previous research that has demonstrated the ability of KULACTIC to inhibit various pathogenic bacteria. Much of that research was conducted many years ago and the KULACTIC product has been upgraded and improved in recent years.

**Objective:** To evaluate KULACTIC's ability to inhibit pathogenic bacteria.

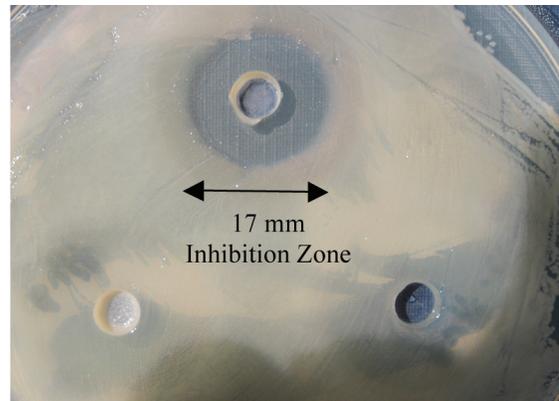
**Materials & Methods:** Petri dishes containing nutrient medium were inoculated with *E.coli* bacteria. Two strains of *E.coli* were used, F18 and K88. KULACTIC was filled into wells bored in the *E.coli* seeded Petri dish and stored at 70 degrees F for 18 hours. Then the Petri dishes were examined and the zones of inhibition were measured in millimeters and photographed.

**Results:** Diagrams 1 and 2 below show the results visually. KULACTIC demonstrated strong inhibition, 17 mm, of both strains of *E.coli*. 12 to 19 mm is considered moderate to strong inhibition and over 19 is considered very strong. Previous research results on KULACTIC's inhibition of *E.coli* were 13-18 mm.

**Diagram 1:** Petri Dish with F18 *E.coli*



**Diagram 2:** Petri Dish with K88 *E.coli*



**Conclusions:** KULACTIC is effective at inhibiting K88 and F18 *E.coli* bacteria.

