

**EFFECTIVENESS OF USING *Aloe vera* AND  
TURMERIC (*Curcuma longa*) TO INHIBIT GRAM-  
POSITIVE BACTERIA ISOLATED FROM  
MASTITIS INFECTED MILK**

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By

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## ABSTRACT

There is a long history in traditional veterinary medicine in Sri Lanka. It had developed with own experience of farmers and some of methods were coming generations to generation. There are have number of plants that used in traditional veterinary medicine. Turmeric (*Curcuma longa*) rhizomes and *Aloe vera* are common plants that using in traditional veterinary medicine. Based on that this research has been conducted to find effectiveness of using turmeric and *Aloe vera* to inhibit gram positive bacteria isolated from mastitis infected milk. Mastitis infected milk was find by collected from Wellawaya veterinary office. Infected milk (100  $\mu$ L) was cultured and gram positive bacteria was identified. They were isolated and culture again in nutrient agar and then broth culture was prepared using buffered peptone. Plant materials were collected from Kandy, Katugastota area and plants were authenticated by National Herbarium, Peradeniya. Antimicrobial susceptibility tests by well diffusion method and disk diffusion method were conducted in two ways. In method one antimicrobial susceptibility test was done for natural fluid of plant material and method two was conducted for aqueous plant extractions. Amoxillin was used as positive control and distilled water was used as negative control in both methds. Bacterial inhibition not observed in tests. Diffusion of turmeric was clearly identified, but bacteria inhibition was not observed. In conclusion, with these negative results there are have some future recommendations for further research purposes.