

Efficacy of a Bio-hygienization additive on microbial control in dairy cow bedding

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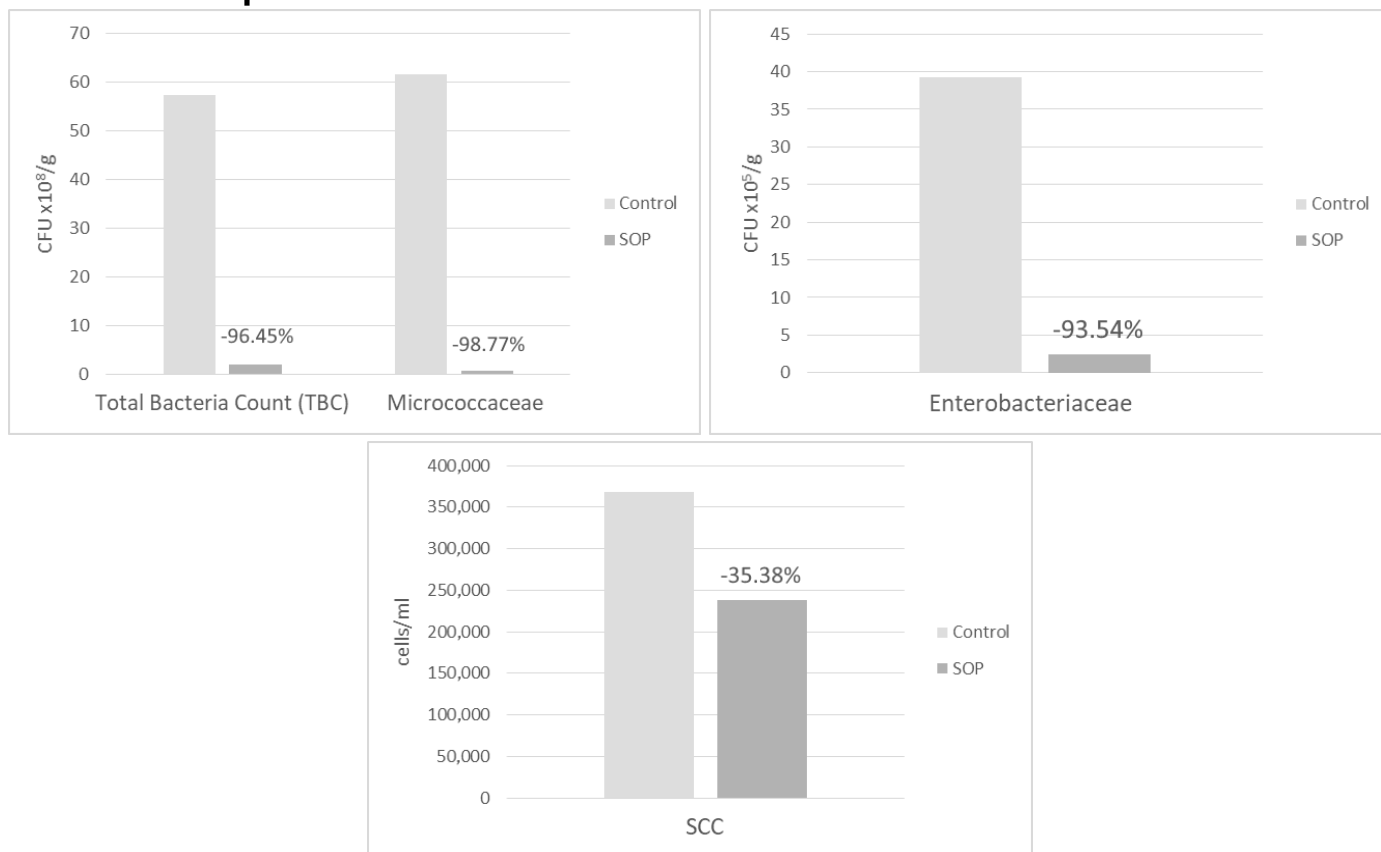
Objectives

The aim of this field study was to investigate the efficacy of an additive (SOP), as an agent for microbial control in dairy cow bedding and in reducing the somatic cell count in milk.

Materials & Methods

Formula	SOP SQC 233 + SQE 034
No. of animals	60 lactating cows, free-stall housed
Materials & Methods	The study was carried out over two years (2004-2005) on a commercial Umbrian Herd (Central Italy) consisting of 60 lactating, free-stall housed cows, on straw bedding. Feed and water were available ad libitum.
Evaluated parameters	Total aerobic bacterial count, Micrococcaceae and Enterobacteriaceae and SCC/ml
Statistical significance	P = 0.004 (TBC); P = 0.0002 (Micrococcaceae); P = 0.01 (Enterobacteriaceae); P = 0.0001 (SCC)

Results & Graphs



Conclusions

SOP not only has an effect on the TBC in bedding, but also helps decrease the SCC in milk.