

# Comparison of Two Different Types of Yeast vs Controls on Stressed Dairy Cows

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## Introduction

Abstract: nine to 11 cows were assigned by breed and lactation number to a control, Cel Con 5a (CC5) or YeaSacc 1026b (YS) group. All cows were fed the same diet. Milk yield, fat and protein percentages were measured for the first 56 days of lactation. The Holsteins and Jerseys differed in milk yield and energy corrected milk response to yeast feeding. The CC5 group had statistically higher ECM  $p=0.0056$  than the controls. YS did not differ from the controls.

Purpose: to compare milk yield of cows fed yeast, (Cel Con 5a or YeaSacc 1026b) or no yeast (control) during heat stress conditions to post-partum cows.

## Materials and Methods

Nine to 11 cows per group paired by breed (Jersey and Holstein) and lactation number were fed a total mixed ration consisting of corn silage, alfalfa hay and grain mix and assigned to a control, Cel Con 5a or YeaSacc 1026b group. Milk yield, fat and protein % were measured for the first 56 days of lactation. Data was analyzed using S.P.S.S.-13© software.

## Results

Statistical Analysis: using S.P.S.S.-13© software, data was analyzed by the analysis of variance and a separation of means by a t-Test.

Holstein

CC5 vs YS Milk yield:  $p=0.05$ , ECM  $p=0.034$

CC5 vs control Milk yield:  $p=0.131$ , ECM  $p=0.0056$

YS vs control Milk yield:  $p=0.40$ , ECM  $p=0.38$

Jersey

CC5 vs YS Milk yield:  $p=0.0113$ , ECM  $p=0.035$

CC5 vs control Milk yield:  $p=0.0095$ , ECM  $p=0.0056$

YS vs control Milk yield:  $p=0.4$ , ECM  $p=0.38$

\*  $p<0.05$  is significant

## Significance

Energy-corrected milk was statistically higher ( $p<0.0056$ ) in the CC5 groups versus the control (no yeast) group. The CC5 differed from the YS group in Holsteins vs Jerseys.