

## Efficacy of PHYTOCEE® in Amelioration of Heat Stress in Cattle

### OBJECTIVE

To evaluate effect of PHYTOCEE® on panting score and rumen motility in heat stressed dairy cows.

### MATERIALS AND METHODS

A total of 48 Holstein Friesian cross bred (HFx) dairy cows aged between 3-8 years and in their early, mid or late lactation period were selected for this study. Selected dairy cows were equally divided in to 4 experimental groups (n=12) namely G1- Control, G2-PHYTOCEE®-50 (50 g/animal/day), G3-PHYTOCEE®-75 (75 g/animal/day), and G4-PHYTOCEE®-100 (100 g/animal/day). The environmental temperature during the study period was between 35°C to 45°C. The duration of treatment was 4 weeks. The dairy cows were used as their own controls and, therefore, allocated to a control pre-treatment period (week 0), followed by a treatment period (4 weeks). The assessment parameters viz. panting score and rumen motility were evaluated. The panting score was evaluated on an ordinal scale of 0-5 (0 being normal and 5 being deceased panting). Rumen motility was observed for 5 mins.

### RESULTS

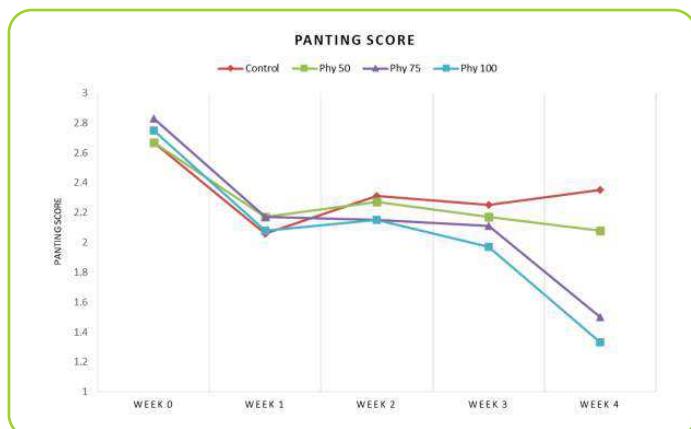


Figure 1: Effect of PHYTOCEE® on panting score in dairy cows

Phy, PHYTOCEE®

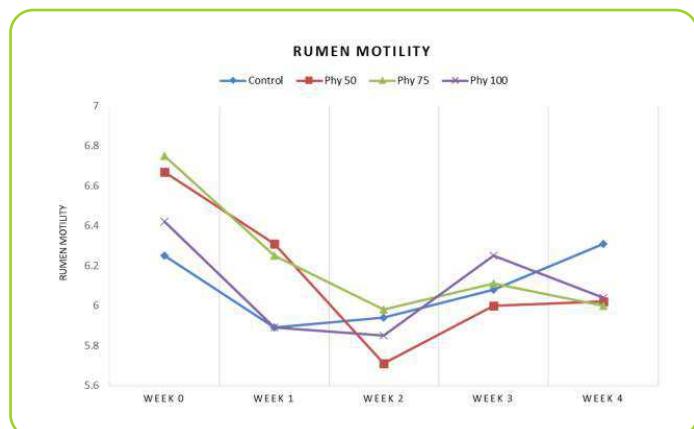


Figure 2. Effect of PHYTOCEE® on rumen motility in dairy cows

Phy, PHYTOCEE®

### CONCLUSIONS

PHYTOCEE® supplementation at 75 g/animal/day effectively reduced the rumen motility and panting score during the treatment period as compared to week 0 (pretreatment).

### OUTCOME

Hence, supplementation of PHYTOCEE® at 75g/ animal/day could be recommended for alleviation of heat stress conditions in dairy cows under field conditions.