

## Heat Stress Mitigation Potential of PHYTOCEE® in Cattle : Effects on Milk Yield

### OBJECTIVE

To evaluate effect of PHYTOCEE® on milk yield in heat stressed dairy cows.

### MATERIALS AND METHODS

: A total of 48 *Holstein Friesian* cross bred (HFx) dairy cows 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 33°C to 37°C. The duration of treatment was 4 weeks. The dairy cows were used as their own controls and, therefore, allocated to a control pretreatment period (week 0), followed by a treatment period (4 weeks). The milk yield in litres (L) was recorded on daily basis and assessed.

### RESULTS

Effect of PHYTOCEE® on milk yield (L) in dairy cows

Group	Week 1	Week 2	Week 3	Week 4
<b>G1-Control</b>	7.57 ± 1.09	7.55 ± 1.08	7.84 ± 1.07	7.84 ± 1.07
<b>G2-PHYTOCEE®-50</b>	8.37 ± 0.90	8.63 ± 0.89	8.60 ± 0.87	8.81 ± 0.90
<b>G3-PHYTOCEE®-75</b>	9.83 ± 0.90	10.07 ± 0.92	10.13 ± 0.86	10.37 ± 0.87
<b>G4-PHYTOCEE®-100</b>	8.30 ± 0.88	8.40 ± 0.83	8.33 ± 0.84	8.57 ± 0.89

Values are expressed as Mean ± SEM; n=12

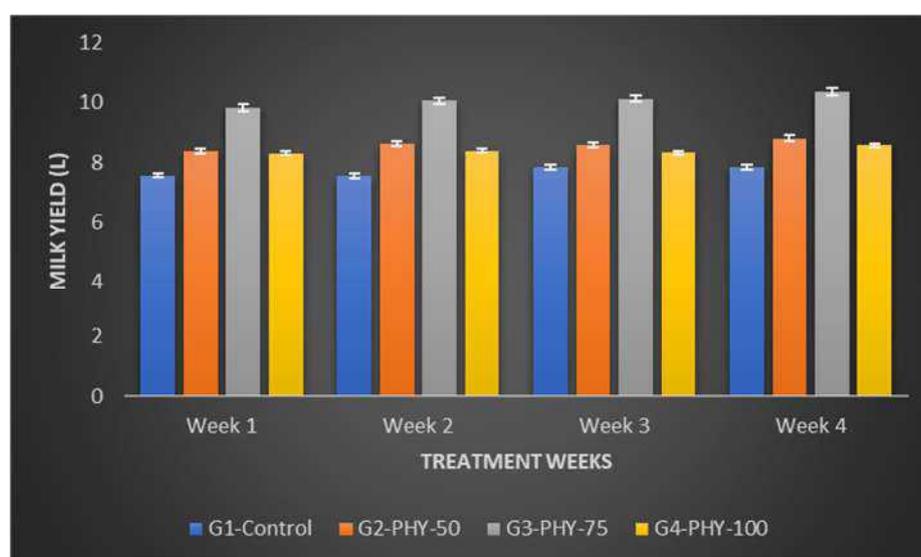


Figure : Effect of PHYTOCEE® on milk yield (L) in dairy cows

### CONCLUSIONS

Highest milk yield was observed following supplementation of PHYTOCEE® at 50 and 75 g/animal/day for 4 weeks.

### OUTCOME

Hence, supplementation of PHYTOCEE® at 50 or 75 g/animal/day could be suggested for alleviation of negative effects of heat stress and to augment milk production in heat stressed dairy cows.