

Immunity Boosting Potential of PHYTOCEE® in Piglets: Effects on Immunoglobulins

OBJECTIVE

To evaluate effect of PHYTOCEE® on IgG levels in piglets.

MATERIALS AND METHODS

A total of 20 sows were equally distributed in two groups viz. G1-Normal control and G2-PHYTOCEE® supplemented group. PHYTOCEE® (30g/sow/day) was supplemented to G2 group for 7 days before and after farrowing. In both G1 and G2 groups, the IgG levels in serum and colostrum samples was estimated in piglets born to sows.

RESULTS

Effect of PHYTOCEE® on IgG levels

| Description | G1-Normal Control | G2- PHYTOCEE® | p-value |
|-----------------------------------------|-------------------|---------------|---------|
| Colostrum IgG Production (mg/mL) | | | |
| IgG Concentration | 217.12 | 1456.18 | 0.005 |
| Serum IgG Level (mg/mL) | | | |
| IgG Concentration | 14.33 | 21.83 | 0.001 |

Values are expressed as mean; n=20; p-value based on unpaired t-test

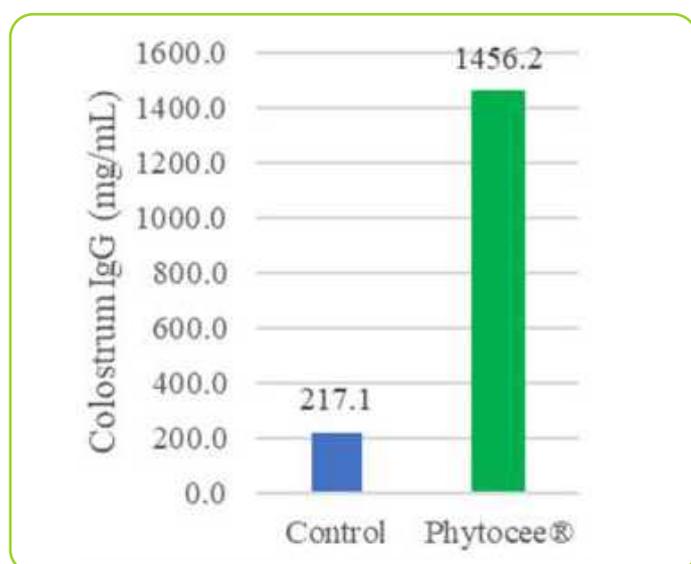


Figure 1 : Effect of PHYTOCEE® on colostrum IgG levels

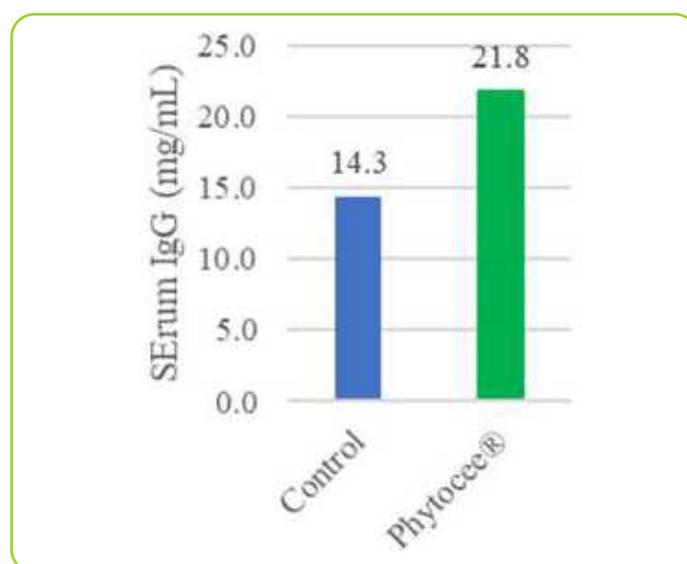


Figure 2 : Effect of PHYTOCEE® on serum IgG levels

CONCLUSIONS

PHYTOCEE® supplementation at 30g/sow/day resulted in statistically significant increase of IgG levels in both colostrum and serum samples.

OUTCOME

Hence PHYTOCEE® (30g/sow/day) could be suggested to supplement for augmentation of immunity in piglets.