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# Super-dosing phytase improves the growth performance of weaner pigs fed a low iron diet

**Running head:** Effect of phytase and iron in the weaner pig

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## Highlights

- Effect of supplementary phytase and iron on weaner pig performance and haematology.
- Feeding a low iron diet reduces weaner pig growth performance.
- Super-dosing phytase improves pig growth performance, particularly when fed a low iron diet.
- Phytase efficacy is influenced by dietary iron concentration.

**ABSTRACT:** This experiment was conducted to test the hypothesis that a super-dose of phytase would improve the performance of weaner pigs fed an Fe-deficient diet, through an increase in phytate bound-Fe bioavailability. A total of 234 pigs (initial BW  $7.6 \pm \text{SE } 0.16$  kg)

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