



OptiPhos® Plus CT strongly outcompetes Axtra® Phy TPT2 and Natuphos® E on heat stability

Trial description

1 Set-up

- **Location:** IFF (Research Institute for Feed Industry), Germany
- **Trial period:** June 2019
- **Pelleting line consists of:**
 - Steam with 1.7 bar pressure.
 - Conditioning 45 s
 - 5 x 80 mm die
 - Cooling on a belt cooler
- **Feed:** Pig feed (wheat/barley/rye/corn/soybean meal/rapeseed meal)

2 Treatments

- Non-supplemented feed (blanc).
- Feed supplemented with OptiPhos® Plus CT, Axtra® Phy TPT2 and Natuphos® E, targeting a dosis of ± 1000 FTU/kg.

3 Measurements

- Recovery = (Phytase in supplemented pellet – phytase in blanc pellet)/(phytase in supplemented mash – phytase in blanc mash) x 100 %

Results

- OptiPhos® Plus CT outcompeted Axtra® Phy TPT2 and Natuphos® E on heat stability at 85°C, showing a recovery which was up to 50% higher.
- Recovery of OptiPhos® Plus CT reached up to 80% at 85 °C.

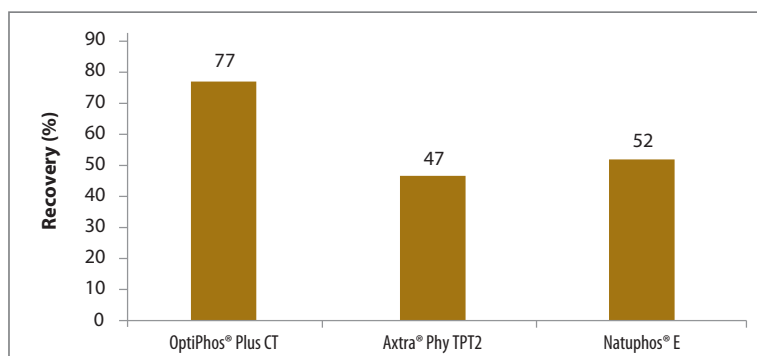


Fig. 1: Recoveries at 85°C *

* Recovery studies at research institutes always give lower recovery values compared to what is observed in practical feed mills; therefore the recoveries measured are mainly usable for comparison purposes between different phytases but not to make final conclusion on heat stability.

Conclusion

- OptiPhos® Plus CT strongly outcompeted Axtra® Phy TPT2 and Natuphos® E on heat stability.