



**Optiphos®**

**Focus:**

**Measure the effectiveness of OptiPhos® CT in comparison with Phyzyme® XP TPT and Ronozyme® NP, in different concentrations, on growth rate and bone ash in a wheat based broiler diet**

**Site:**

SFR Lelystad, Netherlands 2010

**Animals:**

1200 male Ross 308 broilers in pens of 20 bird.  
Every treatment was repeated 6 times

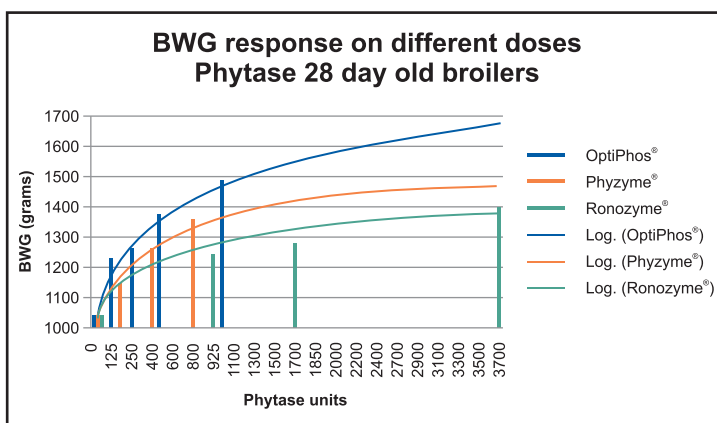
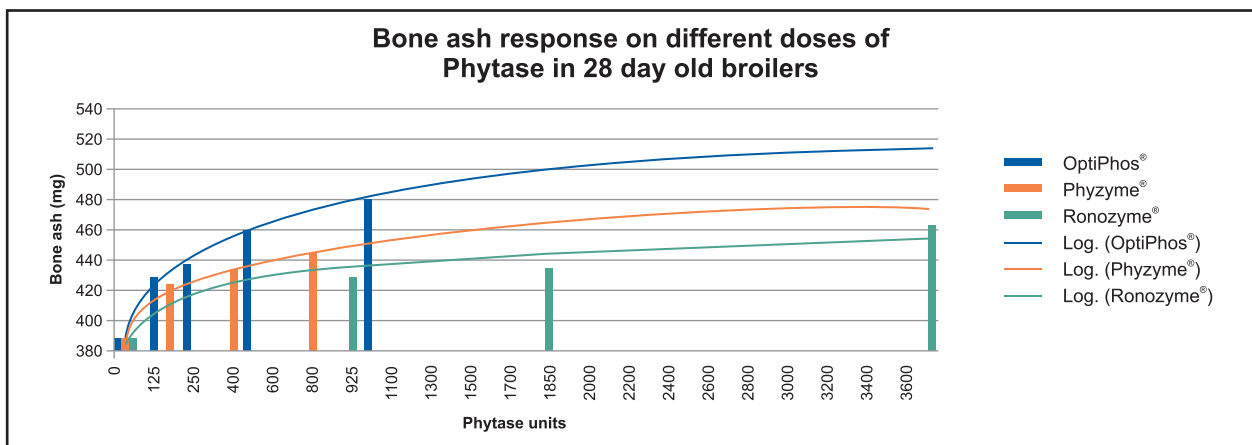
**Experimental design:**

A negative control feed with a deficient P level of 4,2 gr per kg of feed (ret P 1,7 gr/kg) was formulated and complimented with either OptiPhos® CT at 125, 250, 500 and 1000 OTU, Phyzyme® XP TPT at 200, 400 or 800 FTU, or Ronozyme® NP at 925, 1850 or 3700 FTU. All feeds were mildly pelleted at max 75°C. Response in growth rate and bone ash was measured for the period between 7 and 28 days.

**Diet composition:**

Raw materials	%
Wheat	64
Soybean meal	25.5
Rapeseed meal	1.53
Soybean oil	4.43
Limestone	1.10
Nutrients	g/kg
AMEn (broilers kcal/kg)	2900
CP	201
Fat	60
Dig Lys	10.5
Ca	6.5
P	4.2
Ret P	1.7

## Trial results:



## Results:

All 3 phytases showed a positive response in growth rate as well as in bone ash compared with the negative control. When the dose of all phytases was increased also the response increased for all 3 phytases. OptiPhos® showed the strongest response on both the BWG as well as on bone ash.

## Conclusions

- OptiPhos® showed the best response in BWG and Bone ash compared with Phyzyme® XP TPT and Ronozyme® NP, when used in a wheat based feed
- The P release of OptiPhos® was superior compared to the P release of the other two phytases tested in this trial

250 OTU Optiphos is equivalent to 50g of Optiphos 10,000 PF coated per tonne of feed