

**STUDIUL ASUPRA EFECTULUI 3-FITAZEI  
ASUPRA FOSFORULUI ASIMILABIL LA PUII DE CARNE  
STUDY OF THE EFFICIENCY 3-PHYTASE ON ASIMILABLE  
PHOSPHORUS BY BROILERS**

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**Cuvinte cheie:** fitaza, fosfor asimilabil, p s ri.

**Key words:** phytase, utilisable phosphorus, broilers.

**SUMMARY**

A dose-response trial was conducted to study the effect of supplemented 3-phytase from *Aspergillus niger* on phosphorus and calcium utilization in 15 days old broilers. Birds received during 14 days one unique feed (ME 3000 Kcal/kg, total P from plant source 0,44%, Ca 0,58%) containing different dosages of 3-phytase: 0 UF/kg, 300 UF/kg, 500 UF/kg and 700 UF/kg, following a restricted distribution plan 90 g / day in two meals. The five last days of the experimental period, droppings have been totally but collected once a day; they were frozen at -20°C. P and Ca contents were analysis at the end of the trial. For each group, a coefficient of utilization was calculated using the ingested quantity and excreted quantity of the element. 3-phytase addition reduced significantly P and Ca excretion and significantly improved their utilization. Analysis gave the dose-response utilization of P from plant source by broilers in function of the quantity of added 3-phytase.