



Efficiency of a growth promoter additive for chickens and weaned piglets: synthesis of 63 trials



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- 1. Context**
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- Ban of AGP in Europe since 2006 => need efficient alternatives!
- Lots of individual efficiency trials are published
- But 1 trial = 1 situation
- What about the efficiency in other situations?
- Need to evaluate repeatability of product's effect
- Need a more global evaluation of product's quality

Methodological references

- **Objective:** to have a global and reliable evaluation of product

- **Tool:** Gordon Rosen's screen (Rosen, 2004)
 - List of 7 objective questions
 - Associated to 7 answers
 - Assessing:
 - Reliability of data
 - Frequency of performance improvement
 - Reliability of the effects



Methodological references

Question	Answer
How many properly controlled efficacy trials on the product?	> 30
How many trials without negative control?	< 5
Are the trials of the 2 previous questions available in literature?	Yes
How many times out of 10 does product improve performances?	7
What is the coefficient of variation of performance responses?	100-200 %
What dosage maximize return on investment and why?	x ppm because...
Can you supply a model to predict product response under specific conditions?	Yes

From Rosen, 2004

Application to a feed additive

- **Product:** patented, activated copper potentialized with a specific clay, sold as growth promoter
- **Species:**
 - Broiler chickens from 1 to 35 days
 - Weaned piglets from 21 to 70 days

Application to a feed additive

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Question	Answer	Broiler	Piglets
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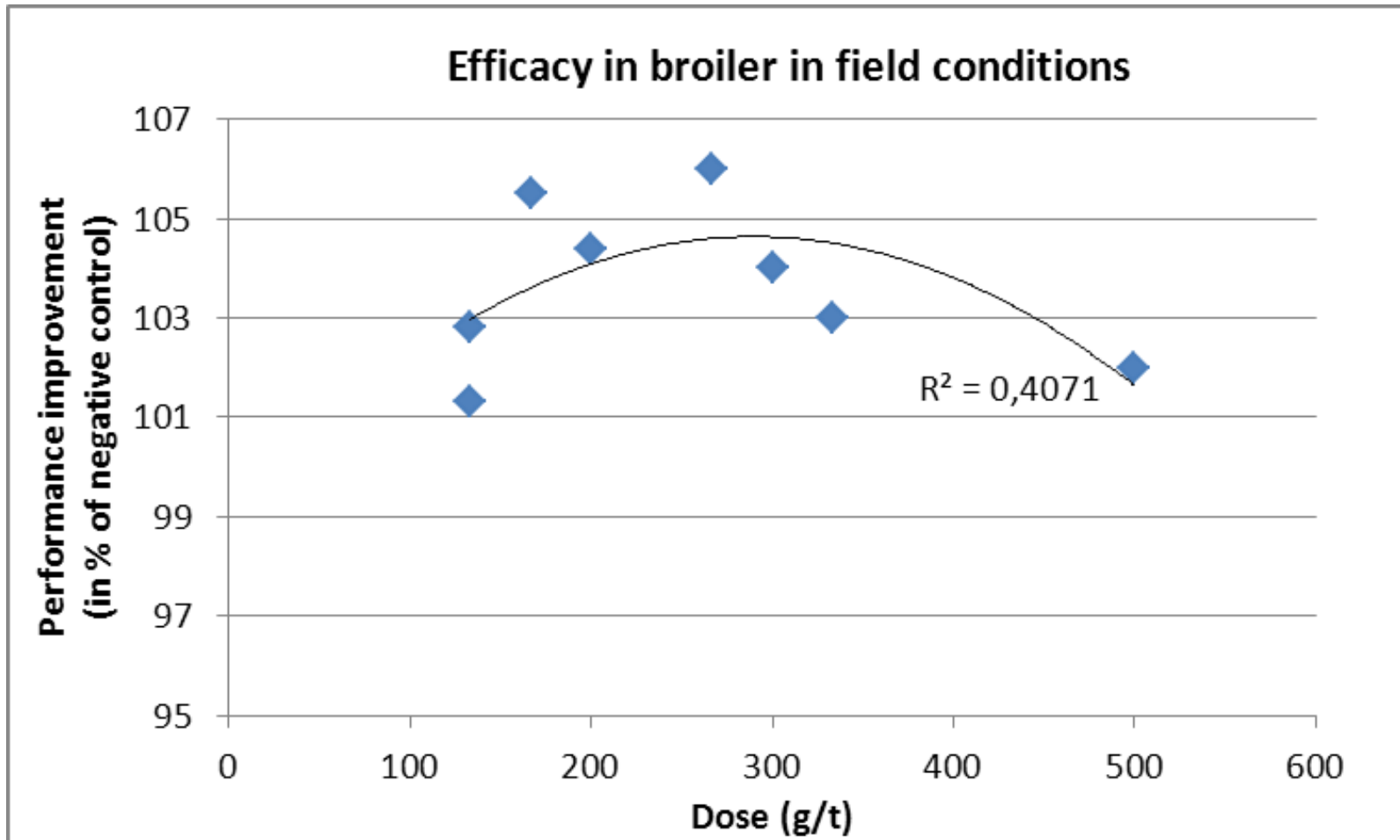
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Can you supply a model to predict product response under specific conditions?	Yes	Yes, under construction	

Conclusion and perspectives

- Product: patented, activated copper potentialized with a specific clay, sold as growth promoter
- Based on data of 63 trials on broilers and piglets
- Positive answer to 6 of the 7 questions of Rosen's screen
- Product can be considered as efficient (and as efficient as antibiotics growth promoters when comparing % of performance improvement)
- Response modeling still to be done

Thank you for your attention!

