

## ACIDIFIER – A MODERN ALTERNATIVE FOR ANTI-BIOTIC FREE FEEDING IN LIVESTOCK PRODUCTION, WITH SPECIAL FOCUS ON BROILER PRODUCTION

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**Summary.** The potential of organic acids in feed preservation, protecting feed from microbial and fungal destruction, but also directly in the animal nutrition is already known for decades and was proven in uncounted laboratory and field trials. However, the knowledge of effects from synergistically acting organic acid blends of high biological value together with organic or inorganic physiologically active carriers to the animal is relatively new. A trial with broiler chicken over a period of 35 days was carried out with an organic acid blend on an inorganic carrier (3 kg inclusion rate per ton of feed) against a control without an acidifier. Results proved significantly ( $p < 0.05$ ) the growth enhancing action of the acidifier. From this results it can be concluded that acidifiers containing well balanced acid combination can increase the growth of broiler chicken under controlled conditions without the use of anti-biotic growth promoters.

**Keywords:** acidifier, organic acid blends, broiler chicken, growth performance.