



ASX ANNOUNCEMENT

Poultry Trials - Feed Conversion Improved by 11.7%

Significant commercial results

- *Feed conversion improved by 11.7%*
- *Weight gains improved by 13.75%*
- *Weight gains 15.8% above industry best practice*

7 December 2004, Sydney: Imugene's (ASX: IMU) *Poultry Productivity Enhancer* trials have shown significantly improved feed conversion ratio results combined with large increases in weight gain. The feed conversion ratio measures the efficiency of conversion of food to body weight and is a key parameter in poultry production.

In the recent trial, birds given Imugene's *Poultry Productivity Enhancer* together with feed containing antibiotics showed 11.7% better feed conversion ratios than the Ross Index. The Ross Index is the theoretical best commercial practice for weight gain and feed conversion ratios, although few commercial producers are able to match the Ross Index. These same birds (as previously announced) also had weight gains of up to 13.75% above the control group (no *Poultry Productivity Enhancer*) that was given feed containing antibiotics. When compared to the Ross Index, the weight gains of the *Poultry Productivity Enhancer* treated group were increased by 15.6%.

The trial also tested birds given Imugene's *Poultry Productivity Enhancer* with feed excluding antibiotics. This resulted in 8.9% better feed conversion than the Ross Index. These birds had weight gains of up to 12.64% compared to the control group (birds on feed with antibiotics but without Imugene's *Poultry Productivity Enhancer*). When compared to the Ross Index, the weight gains of the *Poultry Productivity Enhancer* treated group were increased by 14.5%.

Imugene's Managing Director, Dr Warwick Lamb commented, "These weight gains and feed conversion ratios are substantially superior to any trial results we have seen from competitors. Imugene's results also clearly exceed industry best standards as measured by the Ross index."

"These results make Imugene's *Poultry Productivity Enhancer* compelling to poultry producers by significantly outperforming in-feed antibiotics."

Imugene's *Poultry Productivity Enhancer* targets a global market worth in excess of US\$1 billion.

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The 900 bird trial of the *Poultry Productivity Enhancer* compared different combinations of dose strengths and frequency of administration to determine the optimum dose and administration schedule for the final commercial product. Feed conversion ratio and weight gain results are shown below for the optimum dose groups. Mortalities throughout the trial were low in all groups, with no significant difference between treated and untreated groups, or with antibiotic feed or antibiotic-free feed. Industry standard mortality rates are 3-7% Mortality for this trial was 3.3%.

These results confirm that Imugene's *Poultry Productivity Enhancer* improves both weight gain and feed conversion ratios regardless of the use of in-feed antibiotics. The *Poultry Productivity Enhancer* can therefore be sold in global markets while in-feed antibiotics are used and following withdrawal.

Summary of results

Trial Group	FCR	FCR Improvement	Mean Weight	Weight Improvement (Control)	Weight Improvement (Ross Index)
Imugene Poultry Productivity Enhancer with antibiotics in feed	1.558	11.73%	2627g	13.75%	15.6%
Imugene Poultry Productivity Enhancer with antibiotic free feed	1.608	8.90%	2601g	12.64%	14.5%
Control (antibiotics in feed only)	1.716	2.78%	2309g	NA	1.6%
Industry best (Ross Index)	1.765	NA	2272g	NA	NA

Index

FCR means Food Conversion Ratio. The ratio is calculated from the amount of food required to produce 1kg weight gain.

FCR Improvement means the improvement in the FCR compared with the Ross Index, expressed as a percentage. The less feed required to produce 1kg of chicken meat the more efficient and profitable the production system.

Mean Weight means the mean weight per bird in each group of 50 birds and expressed in grams.

Weight Improvement (Control) means the percentage weight improvement compared with the Control Group (no *Poultry Productivity Enhancer*, antibiotics in feed).

Weight Improvement (Ross Index) means the percentage weight improvement compared with the industry best practice Ross Index (antibiotics in feed).

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ABOUT IMUGENE:

Imugene specialises in commercialising animal health products for production animals and pets.

Imugene's products safely prevent disease and reduce or eliminate antibiotics and harmful chemicals in animals. Animal antibiotics and chemicals in the human food chain have been linked to the emergence of dangerous resistant bacteria in people and food residues.

Imugene owns the worldwide rights to two platform technologies. The **Receptor Mimic Technology** for gastrointestinal diseases of pigs and potentially all other animal species. Secondly, the **Adenoviral Vector Delivery System** for pigs and poultry delivers Imugene's highly effective *poultry productivity enhancer*.

Imugene's poultry and pig portfolio is targeting a worldwide US\$3 billion annual market and replace existing chemical and antibiotic products. Consumer demands for residue free food and health regulatory pressures will bolster Imugene's prospects.

Visit the Imugene Website: www.imugene.com