

**EFFECT OF THE ADMINISTRATION OF  
IMMUNOX AND PERFORM MAX TO POULTRY  
FEED ON THE PRODUCTIVITY INDEXES IN  
BROILERS.**

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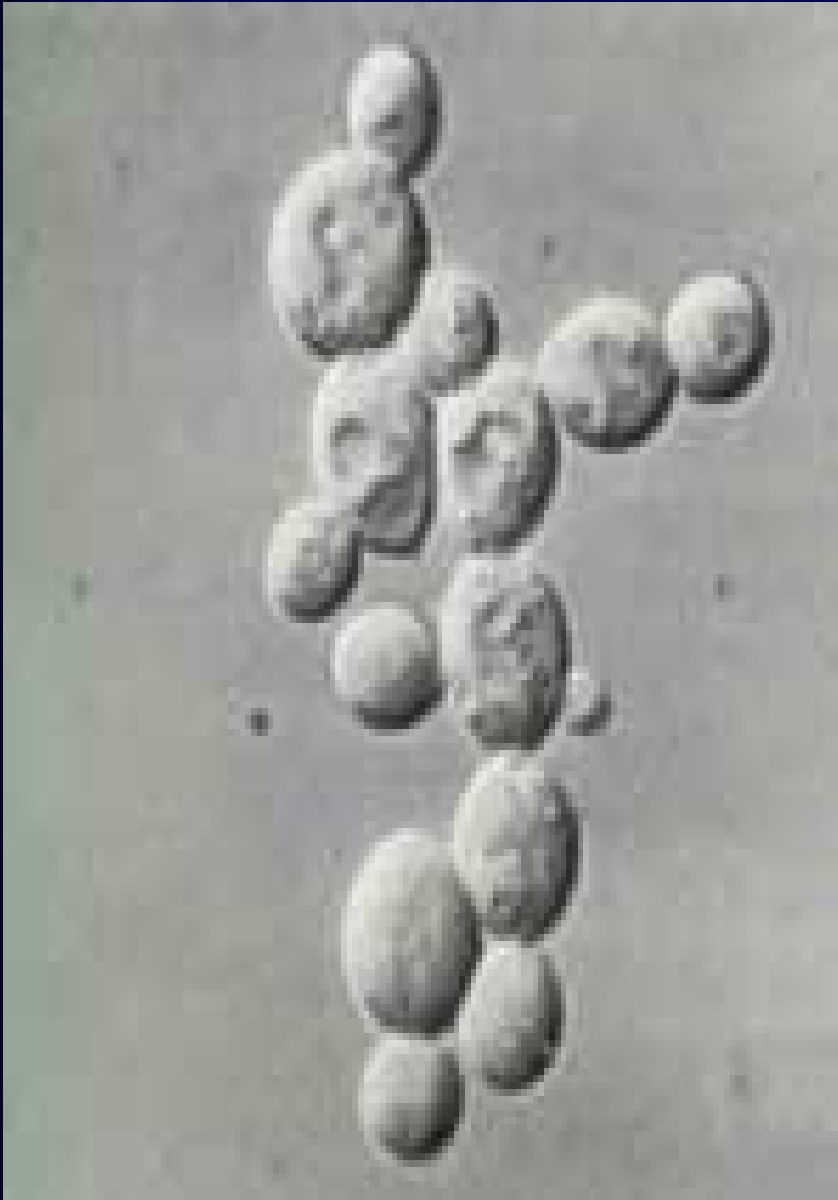
# OBJETIVES

- **To evaluate productive parameters in broilers when adding Perform Max and Immunox.**
- **Decrease in coliforms count.**
- **Decrease in broilers production costs.**









**Cell Wall: *Saccharomyces cerevisiae***

**a) Homopolisaccharides (70-80%)**

- **Glucans**
- **Manans**

**b) Heteropolisaccharides (10-15%)**

- **Glucomanans**
- **Galactomanans**
- **Xylomanans**

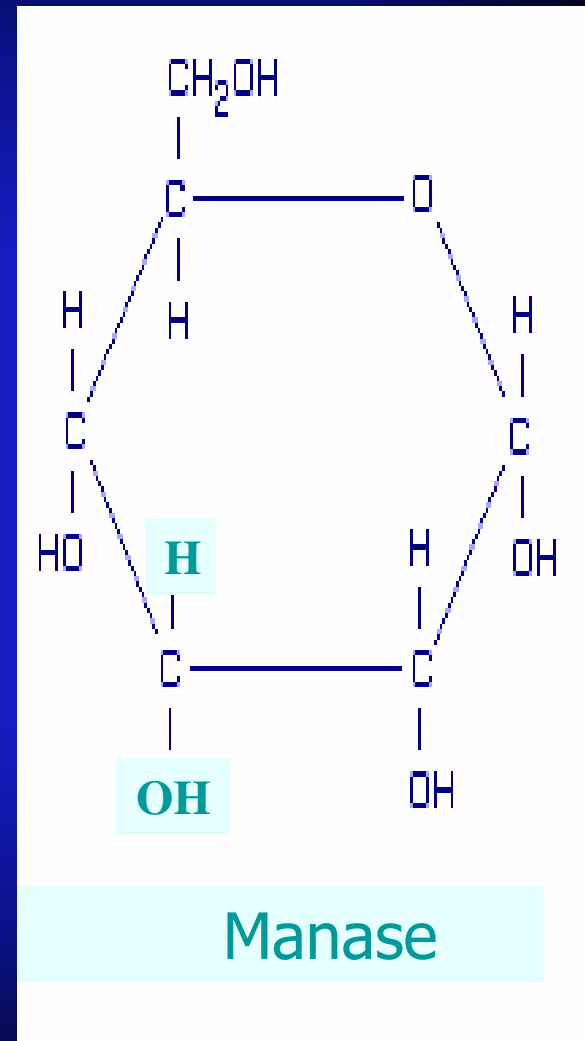
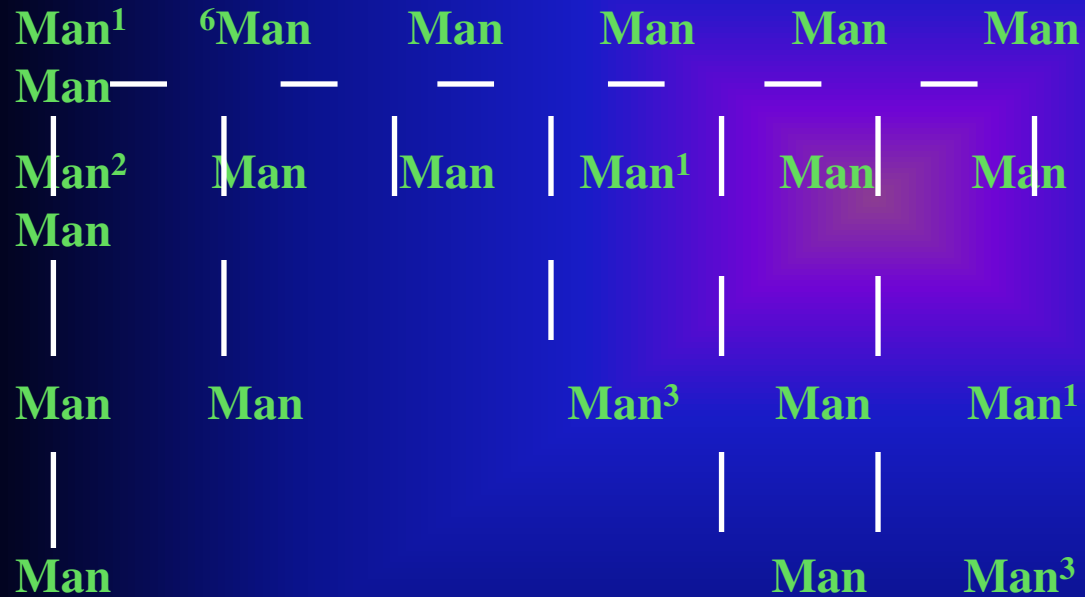
**c) Proteíns**

**d) Quitine**

**e) Lipids**

# MANAN STRUCTURE

Manase units per link  $\alpha 1,6$  and ramifications  $\alpha 1,2$  and  $\alpha 1,3$



# MATERIALS

- **100 male Ross broilers one day old**
- **100 female Ross broilers one day old**
- **Commercial Vaccination Program**
- **Feed Mixer**
- **Petersime Electric Incubator**
- **Galvanized Wire Cage**





	<b>DIET 1</b>	<b>DIET 2</b>	<b>DIET 3</b>	<b>DIET 4</b>
<b>Sorghum</b>	<b>302</b>	<b>302</b>	<b>302</b>	<b>302</b>
<b>Soybean meal</b>	<b>77</b>	<b>77</b>	<b>77</b>	<b>77</b>
<b>Animal grease</b>	<b>30.5</b>	<b>30.5</b>	<b>30.5</b>	<b>30.5</b>
<b>Canola meal</b>	<b>40</b>	<b>40</b>	<b>40</b>	<b>40</b>
<b>Gluten</b>	<b>25</b>	<b>25</b>	<b>25</b>	<b>25</b>
<b>Orthophosphate</b>	<b>7.5</b>	<b>7.5</b>	<b>7.5</b>	<b>7.5</b>
<b>Calcium</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>
<b>Pigment</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
<b>Choline chloride</b>	<b>0.8</b>	<b>0.8</b>	<b>0.8</b>	<b>0.8</b>
<b>Sodium chloride.</b>	<b>1.6</b>	<b>1.6</b>	<b>1.6</b>	<b>1.6</b>
<b>Prem. Vit / miner.</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>
<b>Immunox</b>			<b>0.05</b>	<b>0.05</b>
<b>Perform Max.</b>		<b>0.05</b>		<b>0.05</b>





<b>BROMATOLOGICAL ANALYSIS</b>	<b>PORCENTAGES BASED ON MOISTURE</b>
<b>PROTEIN TOTAL</b>	<b>18.59</b>
<b>GREASA</b>	<b>7.40</b>
<b>ASHES</b>	<b>6.19</b>
<b>FIBER</b>	<b>5.01</b>
<b>HUMIDITY</b>	<b>7.35</b>
<b>ENERGY</b>	<b>7.5</b>

**Same for all feeds**

# Distribution of Treatments

**Males and Females**

**Factorial 4 X 6 X 4:**

<b>Treatment</b>	<b>Ross Broilers Females or Males</b>	<b>Repetitions</b>
<b>1</b>	<b>6</b>	<b>4</b>
<b>2</b>	<b>6</b>	<b>4</b>
<b>2</b>	<b>6</b>	<b>4</b>
<b>4</b>	<b>6</b>	<b>4</b>



## PARAMETERS

- **Feed consumption.**
- **Weight gain.**
- **Feed efficiency.**
- **Total coliform count .**
- **Lymphocytes B y T.**
- **Canals evaluation:**
  - **Macroscopically**
  - **Histopatologically ( liver, small intestines y Fabrizio's pouch).**





# Weight gain

## Females at 7 weeks

Difference between columns with statistical significance ( $p < 0.5$ )

Treatment	Initial weight Average	Final weight Average	Weight gain
1	217.5 + 9.0	2578.7 + 135.8	2361.2 <sup>a</sup>
2	216.7 + 7.6	2636.5 + 143.5	2419.8 <sup>a</sup>
2	218.2 + 2.5	2638.4 + 128.7	2420.2 <sup>a</sup>
4	216.2 + 10.4	2732.6 + 103.5	2516.4 <sup>b</sup> <sup>a</sup>



# Weight Difference

## Females at 7 weeks

Difference between columns with statistical difference ( $p < 0.5$ )

Treatment	Final weight Average	Weight difference from T-1
1	2578.7 + 135.8	0.0
2	2636.5 + 143.5	57.8
2	2638.4 + 128.7	59.7
4	2732.6 + 103.5	153.9



# Weight Gain

Males at 7 weeks

Treatment	Initial weight Average	Final weight Average	Weight gain
1	215.7 + 6.2	2981.8+ 178.5	2766.1
2	227.0 + 10.3	3057.5 + 198.7	2830.5
2	221.5 + 8.5	3088.7 + 207.4	2867.2
4	219.8 + 19.2	3117.2 + 235.5	2897.4



# Weight Difference

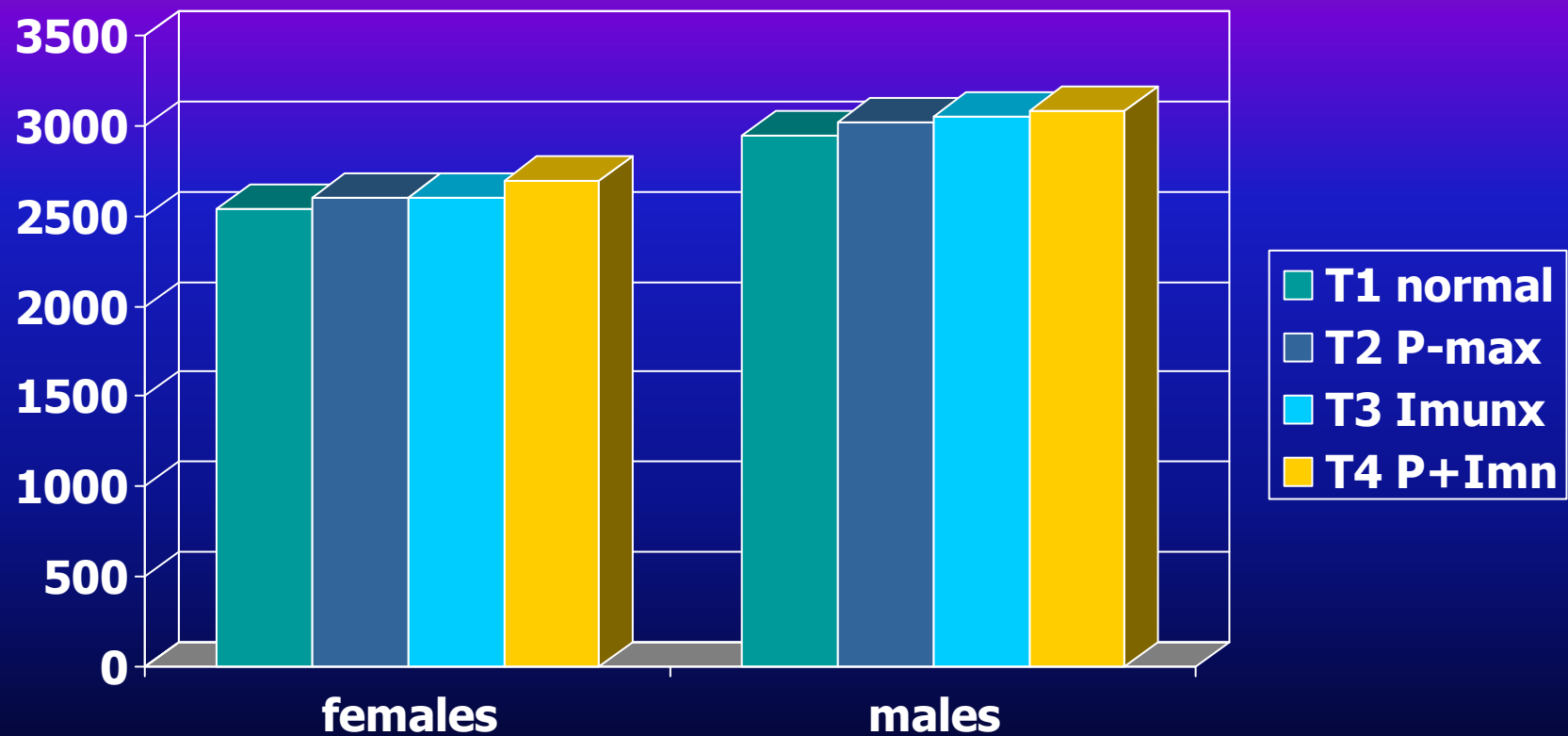
Males at 7 weeks

Treatment	Weight gain	Weight difference from T1
1	2766.1	0.00
2	2830.5	64.4
2	2867.2	101.1
4	2897.4	131.3

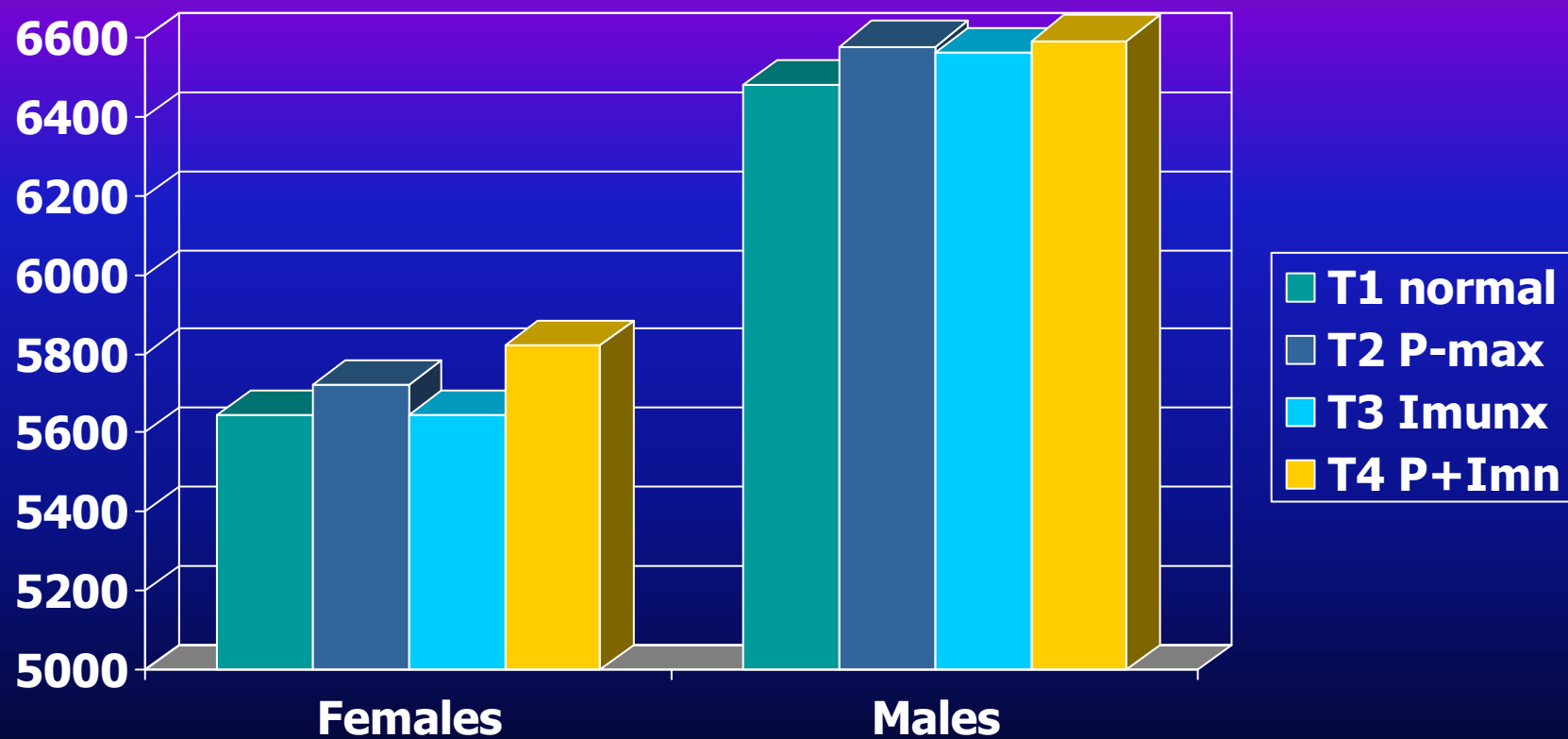




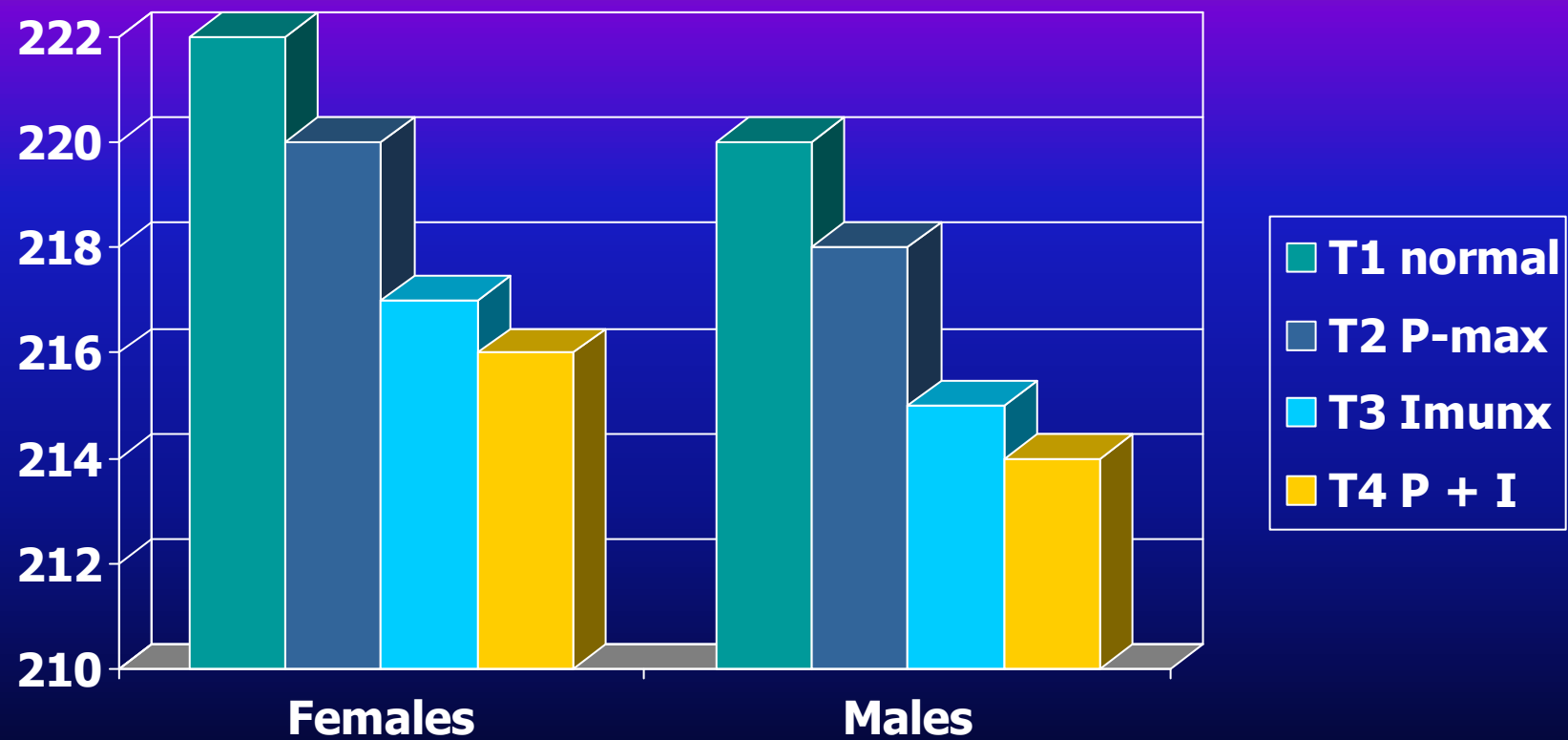
# Weight gain in broilers at 7 weeks



# Feed consumption in broilers at 7 weeks



# Feed efficiency in broilers at 7 weeks



# CONCLUSIONS

- The addition of Perform Max improved weight gain
- The addition Immunox improved weight gain
- The treatment that attained the best conversion was the combination of Perform Max + Immunox

