

# Biomin® *Trials*

Trial 01121031



## Mycofix® Select 3.0

### Trial with broilers

San Miguelito, Panama

Surveillance: Dr. Bosco Quintero

### Aim of the Trial

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Following trial data were obtained from Avicola Chong of Panama. **It was a trial comparing the efficacy of Mycofix® Select 3.0 (MSE 3.0) against a commercial binder (USA).**

### Trial Design

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On December 18<sup>th</sup>, 2001 the trial began with two houses (no. 3 and 4) each containing approximately 5550 one-day-old female broiler chicks. The feed given was the same for both houses.

In house number 3, the commercial binder (USA) was added at a rate of 2 kg/ton of feed. In house number 4, Mycofix® Select 3.0 was added at a rate of 2 kg/ton of feed. The two houses were then observed and results were recorded for mortality, final weight and feed conversion.

## Results and discussion

During the trial a coccidiosis problem occurred and affected all broilers.

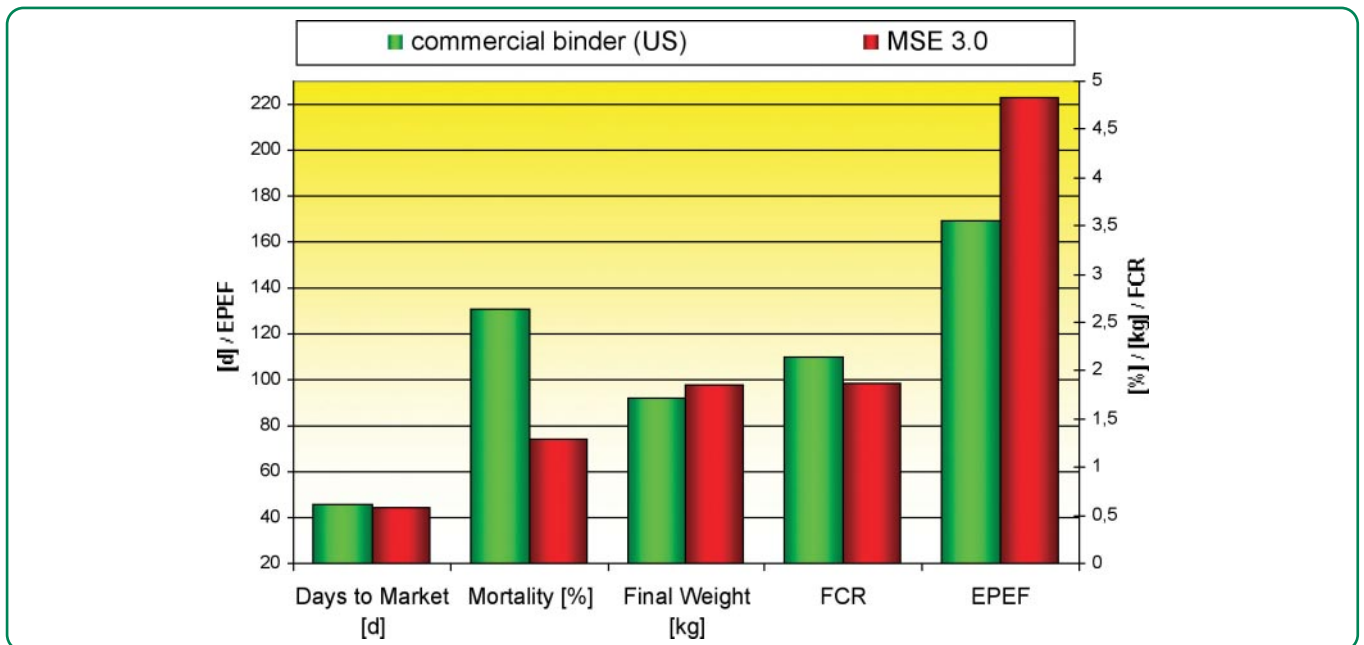
In table 1 it can be seen that the time it took to meet the desired market weight was two days less in the case of the Mycofix® Select 3.0 fed group. Mortality was 1.34% lower in the Mycofix® Select 3.0 treated group, and the feed conversion rate was greatly improved in the Mycofix® Select 3.0 treated group.

**Table 2: Obtained results**

House	Treatment [2kg/t]	Broilers	Sex [no.]	Days to Market	Mortality	Final Weight [kg]	FCR	EPEF*
3	Commercial binder (US)	5548	F	46	2.63	1.72	2.15	169
4	MSE 3.0	5550	F	44	1.29	1.86	1.87	223

\*EPEF (European Production Efficiency Factor) = (Livability [%] x live weight [kg]) / (age [d] x FCR) x 100

Addition of 0.75 kg/t Mycofix® Plus 3.0 to feed had significantly positive effects ( $P < 0.1$ ) on feed intake and weight gain of broilers within their first seven days of life. During second and third week of life, both performance parameters were also increased in the presence of Mycofix® Plus. The difference in body weight between birds of the trial group (group 2) and birds of the control group (group 1) was 20 and 30g on days 14 and 21, respectively, calculated according to **figure 3**.



**Figure 1: Trial results**

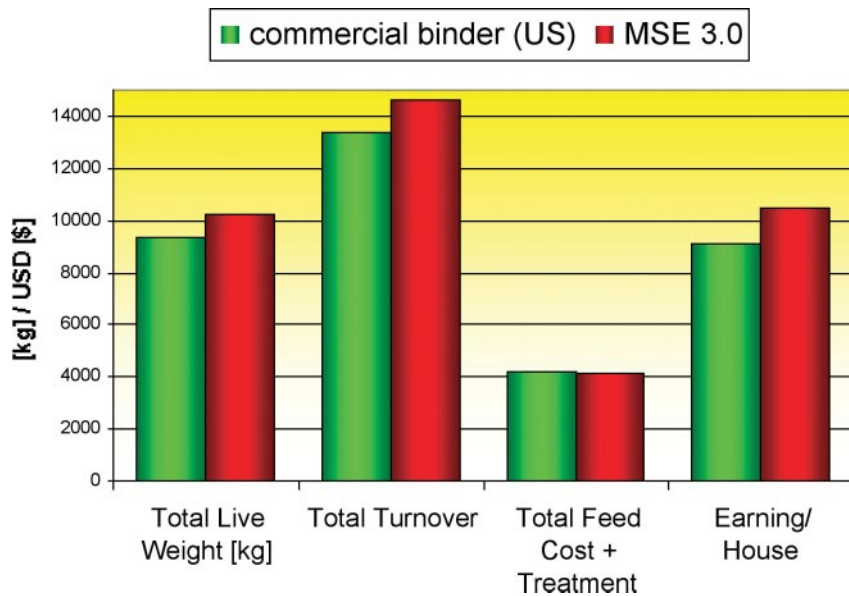
## Economical Calculation

The following prices were used:

4 diets were used from day 1 to market age. The average feed price of those 4 diets before any treatment was USD\$ 0.209/kg. The live broiler sell price was USD\$ 1.43/kg. The cost for the commercial binder (USA) was USD\$ 0.84/kg and for Mycofix® Select 3.0 USD\$ 3.80/kg.

**Table 2: Economical Calculation**

House	Total Live Weight [kg]	Total Turnover [USD\$]	Total Feed Cost and Treatment [USD\$]	Earning/ House [USD\$]	Earning/ Broiler [USD\$]
3	9331	13342.94	4232.68	9110.26	1.64
4	10209	14598.87	4134.79	10464.08	1.86
Δ	+ 878	+ 1255.93	- 97.89	+ 1353.82	0.22



**Figure 2: Economical results**

Avicola Chong produces 2.6 million broilers per year (50000/week).

**Yearly gain in performance** = (2600000 broilers x \$0.22) = **\$572 000**

At Avicola Chong, a house is programmed to rear 6 groups of broilers per year (rearing + down time = 61 days). Using Mycofix® Select 3.0 instead of the other product would save 12 days per house and year, which is an increase of 3.28% in house utilization. This extra 3.28% house utilization can be interpreted as an extra increase of 85280 broilers per year (2.6 million x 0.0328).

**Yearly gain in house utilization** = (85280 broilers x \$0.22) = **\$18 762**

**Total yearly advantage of Mycofix® Select 3.0** compared to the commercial binder = (\$572000 + \$18762) = **\$590 762**

## Conclusions

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By switching to Mycofix® Select 3.0 this farm could:

- ✓ Improve overall broiler performance
- ✓ Improve house utilization
- ✓ Improve bird/year production rate
- ✓ Improve profit

### > IMPRESSUM

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