TRIAL n°63	Date	Age
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Birth	02/05/2010	
Weaning	07/06/2010	36
Intermediate weighing	26/06/2010	55
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INFLUENCE OF THE SANICAROB ON THE PERFORMANCES OF GROWTH, MORTALITY AND CARCASS QUALITY IN THE GROWING RABBIT IN ASSOCIATION OR NOT WITH PTHENT EXTRACTS.

Proof carried out without use of antibiotics

1. Mortality and pathology

The DIGESTAROM and the SANICAROB decrease the mortality compared to the CONTROL without supplementation. The decrease due to the SANICAROB is about (Table 1):

- 2.6 % from 35 to 56 days (P<0.05),
- 0.6 % from 56 to 70 days (Not significant),
- 3 % for all the period (P<0.1).

The SANICAROB is more efficient than the plant extract (DIGESTAROM) and no synergy exists between the 2 products.

Figure n°1: Results of mortality (in %)
Results on 1 098 rabbits

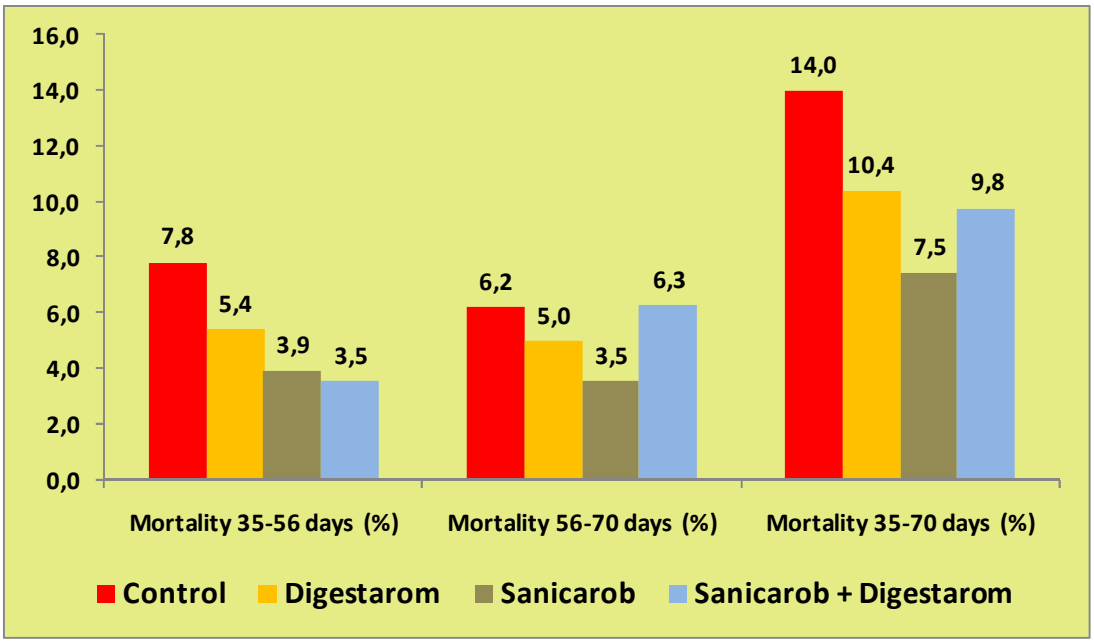


Table n°2: Influence of the SANICAROB on the mortality

	Control	Sanicarob	P
Mortality 35-56 days (%)	6,2	3,6	0,050
Mortality 56-70 days (%)	5,3	4,7	0,645
Mortality 35-70 days (%)	10,9	7,9	0,095

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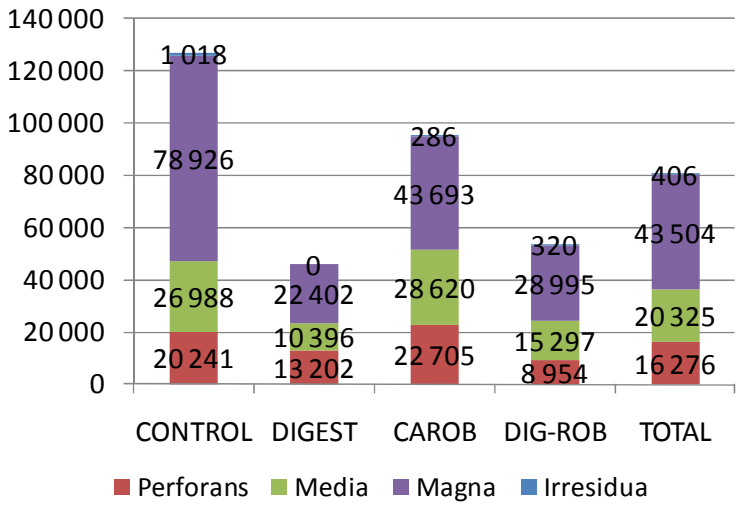
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2. Numeration and identification of the Eimerias

At 44 days of age, the **SANICAROB decreases the number of Eimeria Magna but this difference is non statistically significant** (Figure n2). **The DIGESTAROM decreases the number of eimeria whatever is the specie.**

Figure n°2: Numeration and identification of the eimerias



3. Microbiological analysis

The SANICAROB decreases the number of *C. perfingens* and increases the number of yeasts. The DIGESTAROM decreases the number of mushrooms (Table2).

Table°2: Microbiological results

UFC / g	TEMOIN	DIGEST	CAROB	DIG-ROB	TOTAL
Total Entero.	2×10^7	2×10^7	1×10^7	2×10^7	1.7×10^7
E. coli.	Absence	Absence	Absence	Absence	Absence
S. aureus	Absence	Absence	Absence	Absence	Absence
Salmonella sp.	Absence	Absence	Absence	Absence	Absence
C. perfingens	8×10^3	9×10^3	6×10^2	1×10^3	4.6×10^3
Champignons	8×10^5	7×10^4	6×10^5	1×10^4	3.7×10^5
Levures	2×10^3	3×10^3	2×10^5	3×10^5	1.3×10^5

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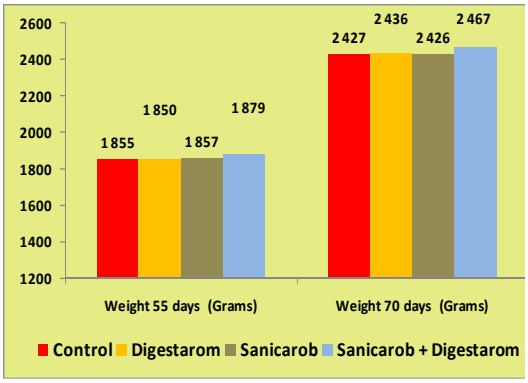
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4. GROWTH

The rabbits with the SANICAROB are heavier at 56 days than the control ones (15 g – P=0.102) and at 70 days too, even if not statistically significant (16 g – P=0.225) (Figure 3 and Table 3). The growth is statistically significantly improved by the SANICAROB from 35 to 56 days but there is no difference after 56 days (Figure 4 and Table 4). The SANICAROB is more efficient than the plant extracts mix (DIGESTAROM). A small positive synergy is observed between the 2 products.

Figures n°3 and n°4: Results of WEIGHT (grams) and of growth (g / D)



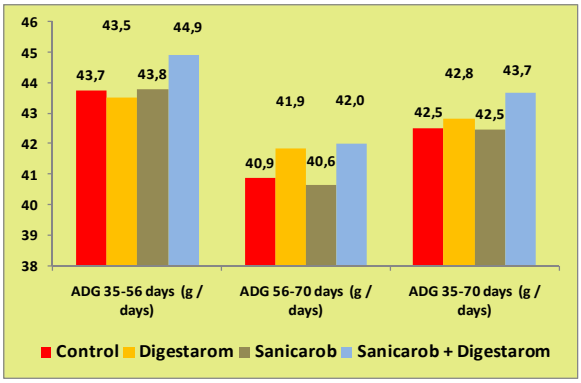


Table n°3: Influence of the SANICAROB on the weight (grams)

	Control	Sanicarob	P
Weight 35 days (G)	1 025	1 025	1,000
Weight 56 days (G)	1 853	1 868	0,102
Weight 70 days (G)	2 431	2 447	0,225

Table n°4: Influence of the SANICAROB on the growth (g / d)

	Control	Sanicarob	P
ADG 35-56 days (g/ j)	43,6	44,3	0,035
ADG 56-70 days (g/ j)	41,4	41,3	0,918
ADG 35-70 days (g/ j)	42,7	43,1	0,228

5. Sale and slaughtering

The SANICAROB and the DIGESTAROM decrease both significatively the percentage of small not marketable rabbits; the SANICAROB is the most efficient (Figure and Table 5). These 2 products seem to have an additive effect. The total of percentage of non marketable rabbits is decreased too but not significantely.

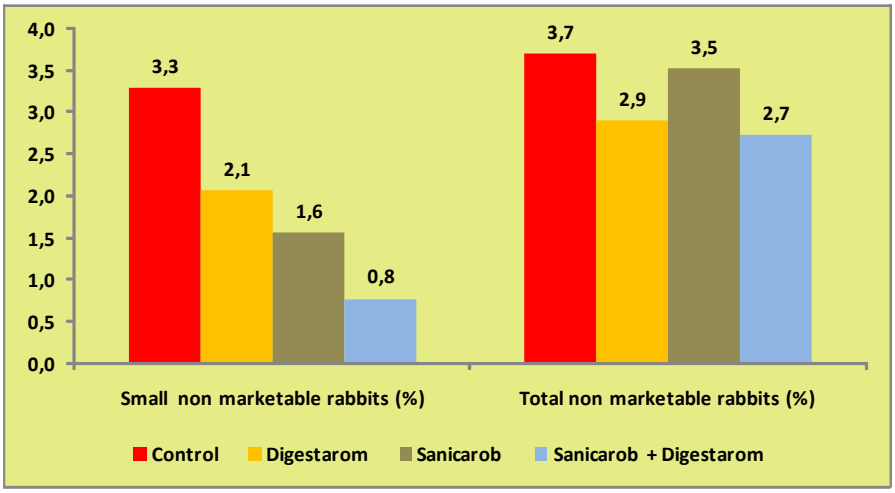
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Figure n°5: Not marketable rabbits (en %)
Results on 995 rabbits

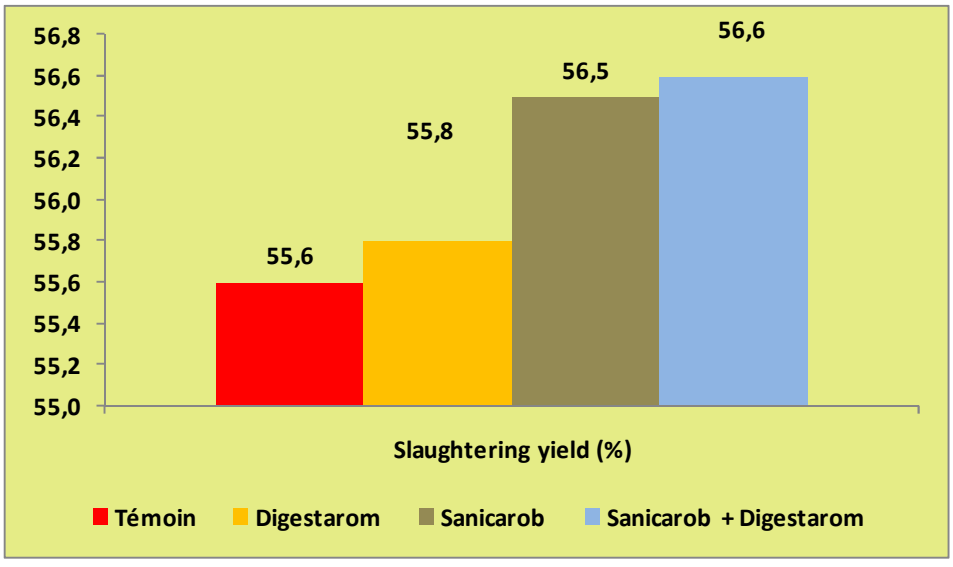


Tablen°5: Influence of the SANICAROB on percentage of non marketable rabbits (%)

	Control	Sanicarob	P
Small not marketable rabbits (%)	2,6	1,2	0,088
Total not marketable rabbits (%)	3,2	3,0	0,880

The slaughtering yield is very significatively improved by the SANICAROB (Figure and Table 6).

Figure n°6: Results on the slaughtering yield (%)
Results on 995 rabbits



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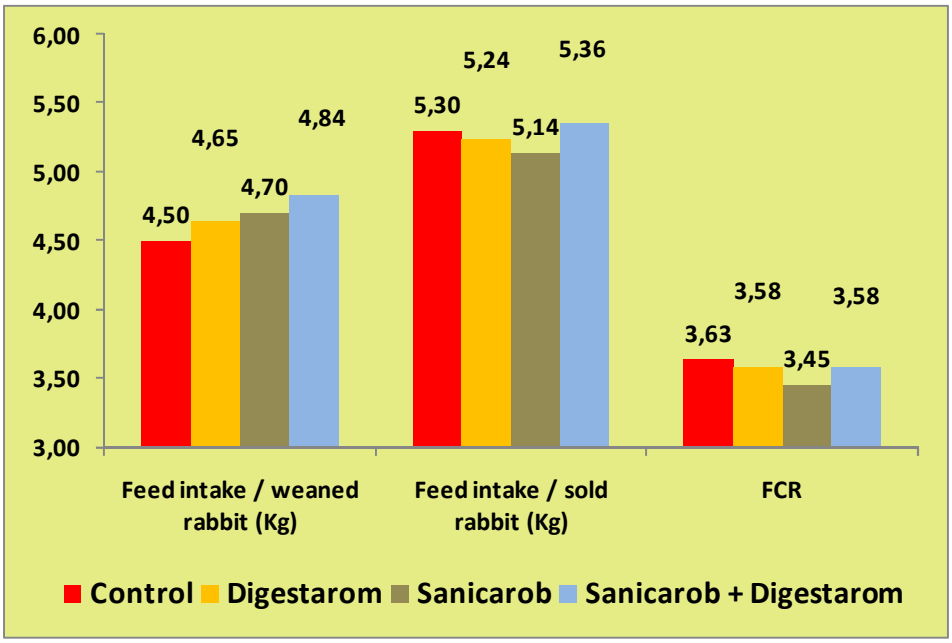
Tablen°6: Influence of the SANICAROB on the slaughtering yield (%)

	Control	Sanicarob	P
Slaugthering yield (%)	55,7	56,6	0,000

6. Feed intake end feed conversion ratio

The lowest feed intake by sold rabbit and the feed conversion ratio are got with the SANICAROB feed. No synergy is observed between the SANICAROB and the DIGESTAROM (Figure 7).

Figure n°7: Results of Feed intake and of feed conversion ratio



7. Economical results

The Table 7 summarizes the economical results at the level of the farm and at the level of the slaughtering plant for 1 000 weaned rabbits.

The SANICAROB improves the gross margin of the farm of 0.1 €uro / weaned rabbit about, consequence of the mortality decrease and of the growth increase. No synergy with the DIGESTAROM is observed.

The SANICAROB improves the gross margin of the slaughtering plant OF 0.1 €uro / weaned rabbit about and 0.05 €uro /kg of meat, consequence of the increase of the slaughtering yield and of the decrease of the seizure level.

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Table n°7: Economical results

	Control	Digestarom	Sanicarob	Sanicarob + Digestarom
Mortality (%)	14,0	10,4	7,5	9,8
Weight at sale (kg)	2 617	2 616	2 610	2 636
FCR	3,63	3,58	3,45	3,58
Seizure level (%)	3,70	2,90	3,53	2,73
Slaughtering yield (%)	55,6	55,8	56,5	56,6
Produced weight gain (Kg)	1 251	1 344	1 414	1 378
Feed intake (Kg)	4 545	4 811	4 879	4 932
Weaned rabbits	1 000	1000	1000	1000
Sold rabbits	860	896	925	902
Paid rabbits	828	870	892	877
Weight of produced rabbits (Kg)	2 251	2 344	2 414	2 378
Weight of paid rabbits (Kg)	2 167	2 276	2 328	2 312
Weight of produced meat (Kg)	**1 205**	**1 270**	**1 315**	**1 308**
Feed price (€ / t)	200,0	205,4	207,8	213,2
Cost of weaned rabbits (€)	1 100	1 100	1 100	1 100
Rabbit sale price (€)	3 575	3 755	3 841	3 814
Total alimentary cost (€)	909	988	1 014	1 052
Gross margin of the farm (€)	**1 566**	**1 667**	**1 728**	**1 663**
Price of the produced meat (€)	**4 819**	**5 080**	**5 262**	**5 234**
Gross margin of the slaughtering plant (€)	**1 244**	**1 325**	**1 420**	**1 419**
Gross margin of the slaughtering plant (€ / kg produced meat)	**1,03**	**1,04**	**1,08**	**1,08**
Total gross margin (€)	**2 810**	**2 992**	**3 148**	**3 082**

8. Conclusions

Globally, the SANICAROB improve the results at the level of the farm and at the level of the slaughtering plant:

- Mortality.
- Growth.
- Percentage of small non marketable rabbits.
- Slaughtering yield.

Cumulating the gross margin of the farm and the gross margin of the slaughtering plant, the profitability is improved of 0.2 € / rabbit. The SANICAROB is particularly useful for the companies integrating the production and the slaughtering.

Globally, few synergy or cumulating effects are observed with the DIGESTAROM AT THE LEVEL OF THE FARM. But these 2 products have cumulating effects for the small non marketable rabbits and for the slaughtering plant.

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