



Tanica-80

(Tannin \geq 80%)

Tasteless and non-reactive tannic acid preparation
Anti-enterovirus, Prevent feed dropping, Total ZnO replacement

Tannin \geq 80%

- ① Anti-enterovirus agent, prevent feed passage syndrome.
- ② To completely replace ZnO.



- ③ Non-reactivity and non-caking to premix.
- ④ No acerbity, no skin irritation.
- ⑤ Plant original astringent.



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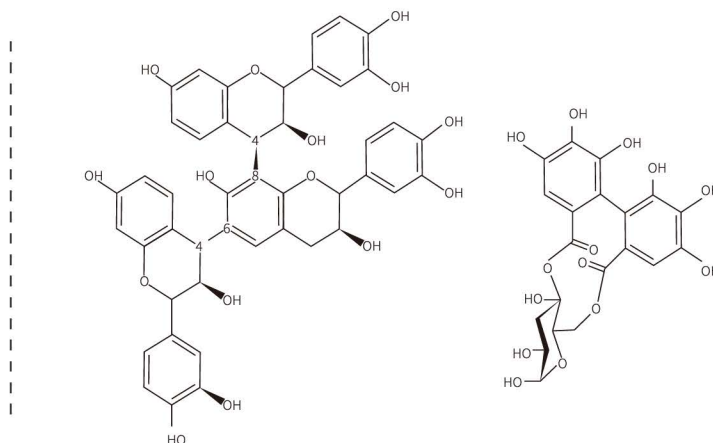
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Insighter®

Solutions Of Gut Problems

1. Tanica-80: tasteless tannin

- ① Tannin is a class of polyphenols derived from plants.
- ② Tanica-80 is a tasteless, non-irritating and non-reactive feed tannin preparation developed by Inshifter based on innovative processing technique.
- ③ Tanica-80 mainly used for anti-gastrointestinal virus, prevent feed passage syndrome, improve fecal formability and total replace ZnO.



2. Comparison of characteristics of different types of tannin products

Product	Common tannin	Coated tannin	Tanica-80
Main process	Extracted from plants	Coated by lipid materials	Produced under innovative technique
Taste	Astringency	Astringency	Tasteless
High dosage on feed intake	Decreased	Decreased	Unaffected
Irritation to hands and skin	Strong	Partly improved	Non-irritating
Discoloration in liquid diets	Yes	Yes	No
Reactiveness	High	Medium	Not have
Cost performance	Medium	Low	High

3. Application effects

Table 1. Application effects of Tanica on nursery piglets

Items	Negative control	ZnO 1	ZnO 2	Tanica	ZnO+Tanica
Number	5×10	5×10	5×10	5×10	5×10
ZnO (g/t)	-	2,000	3,000	2,000	2,000
Tanica (g/t)	-	-	-	1,000	2,000
Initial BW (kg)	8.32±0.57	8.29±0.62	8.31±0.48	8.30±0.58	8.30±0.48
ADFI (g)	498±68 ^a	570±56 ^b	583±48 ^b	578±50 ^b	587±51 ^b
ADG (g)	252±39 ^a	322±32 ^b	353±26 ^c	340±28 ^c	358±29 ^c
FCR	1.98±0.11 ^a	1.77±0.10 ^b	1.65±0.09 ^c	1.70±0.09 ^c	1.64±0.10 ^c
Diarrhea rate (%)	25.24±1.56 ^a	15.36±1.23 ^b	7.09±0.98 ^c	10.05±1.02 ^c	6.48±0.96 ^c

Note: Guangdong, China, 2016.

32 day-old of Duroc × Landrace × Large pigs were selected for 14 days trail fed with commercial feed.

Table 2. Application effects of Tanica on growing pigs

Items	Negative control	Tanica 1	Tanica 2	Tanica 3
Number	5×10	5×10	5×10	5×10
Tanica (g/t)	-	500	1,000	2,000
Initial BW (kg)	15.38±0.77	15.44±0.76	15.32±0.69	15.36±0.71
ADG (g)	450±51 ^a	477±66 ^b	492±50 ^b	507±61 ^c
ADFI (g)	930±86 ^a	935±81 ^a	944±76 ^{ab}	963±90 ^b
FCR	2.07±0.15 ^a	1.96±0.14 ^b	1.92±0.15 ^b	1.90±0.09 ^c
Diarrhea rate (%)	15.68±1.53 ^a	11.60±1.28 ^b	8.32±1.02 ^b	4.46±0.98 ^c

Note: Guangdong, China, 2016.

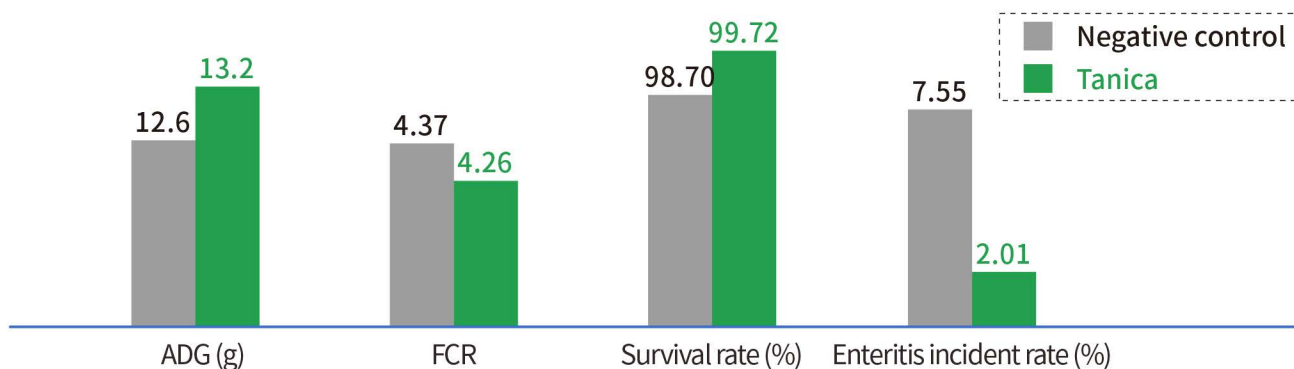
50 day-old of Duroc × Landrace × Large pigs were selected for 30 days trail fed with commercial feed.

Table 3. Application effects of Tanica on yellow-feather broilers

Items	Negative control	Tanica 1	Tanica 2
Number	6×30	6×30	6×30
Tanica (g/t)	-	500	1,000
AFBW (g)	395±13 ^a	413±15 ^{ab}	428±10 ^b
ADG (g)	17.0±0.71 ^a	17.6±0.51 ^{ab}	18.2±0.45 ^b
ADFI (g)	31.1±0.90	31.3±0.75	31.9±0.52
FCR	1.83±0.10 ^a	1.78±0.07 ^{ab}	1.75±0.05 ^b

Note: Guangdong, China, 2016.

1 day-old yellow-feather broilers, 3 treatments × 6 replicates × 30 broilers for 3 weeks trail.



Note: (1) Control group: no antibiotics. Tanica group: 1kg/t Tanica. (2) Experimental animals: 9 week-old yellow-feather broilers (2×5,000) for 4 weeks trail.

Figure 1. Application effects of Tanica on yellow-feather broilers

Table 4. Application effects of Tanica on AA broilers

Items	Negative control	Tanica 1	Tanica 2
Number	6×30	6×30	6×30
Tanica (g/t)	-	500	1,000
Final BW (g)	814±25 ^a	836±20 ^{ab}	861±23 ^b
ADG (g)	36.9±4.22 ^c	37.9±4.33 ^{bc}	39.1±4.32 ^a
ADFI (g)	52.0±2.01	52.3±2.14	52.8±1.84
FCR	1.41±0.22 ^a	1.38±0.33 ^{ab}	1.35±0.32 ^b

Note: Guangdong, China, 2016.

1 day-old AA broilers, 3 treatments × 6 replicates × 30 broilers for 3 weeks trail.

Table 5. Effect of Tanica on the performance of Ross 708 broilers (USA, 2022)

Items	Treatments			P-value
	Control	BMD	Tanica	
Initial body weight, g	39.3±0.98	39.3±0.87	38.8±0.75	0.224
Day 1 to 14				
Average daily gain, g	25.83±1.37	25.15±0.77	25.46±0.02	0.333
Average daily feed intake, g	23.21±1.35 ^a	24.98±1.60 ^b	22.55±0.06 ^a	0.001
Unadjusted FCR	1.02±0.02 ^a	1.13±0.06 ^b	1.00±0.03 ^a	<0.001
Day 15 to 28				
Average daily gain, g	54.57±3.88 ^a	59.34±3.00 ^b	58.59±2.29 ^b	0.001
Average daily feed intake, g	86.43±3.39	88.60±4.41	87.87±2.80	0.334
Unadjusted FCR	1.59±0.07 ^a	1.50±0.08 ^b	1.50±0.05 ^b	0.003
Day 29 to 42				
Average daily gain, g	83.13±2.04 ^{ab}	85.24±5.5 ^a	80.28±3.69 ^b	0.017
Average daily feed intake, g	163.43±4.76 ^a	171.23±7.19 ^b	163.75±6.15 ^a	0.005
Unadjusted FCR	1.97±0.05 ^a	2.01±0.10 ^{ab}	2.04±0.09 ^b	0.095
Day 1 to 42				
Fianl BW, g	2,558.90±77.83 ^a	2,659.92±116.44 ^b	2,584.71±44.10 ^a	0.017
ADG, g	60.93±1.85 ^a	63.33±2.77 ^b	61.54±1.05 ^a	0.017
ADFI, g	99.54±2.62 ^a	103.91±4.21 ^b	100.00±3.12 ^a	0.007
Unadjusted FCR	1.67±0.03	1.67±0.05	1.66±0.04	0.725
Mortality adjusted FCR	1.50±0.03	1.49±0.03	1.49±0.03	0.926

Note: Virginia Tech, USA, Oct 7th – Nov 11th.

1332 Ross 708 chicks (3×12×37) were reared on floors for 42 days trail.

Control: maize and soya meal diet (NRC, 1994).

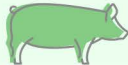



BMD group: 50ppm bacitracin methylene disalicylate (BMD).

Tanica group: 750ppm (day 1-14), 500ppm (day 15-28) and 350ppm (day 29-42).

Unadjusted FCR: (feed consumption)/(total weight of live broilers).

Mortality adjusted FCR: (feed consumption)/(total weight of live broilers +total weight of dead broilers).

4. Recommended dosage

Species	Stage	Dose (g/t)	Species	Stage	Dose (g/t)
 Swine (keep ZnO)	Weaned piglet	1,000	 Chicken	Starter	300 - 750
	Nursery	1,000		Grower	300 - 500
	Grower	500		Finisher	200 - 300
	Finisher	250		Layer	200 - 300
Swine (remove ZnO)	Creep	3,000		Breeder	300 - 500
	Nursery	2,000	 Duck	Meat duck / ayer	200 - 300
 Ruminant	Calf	500		Breeder	300 - 500
	Lamb	500	Aquatic animal	300 - 500	
	Meat cattle / Dairy cows	1,000 (concentrate) (10-20 g/d/herd)	Rabbit	500 - 750	
	Fattening / Dairy sheep and goats	1,000 (concentrate) (3-5 g/d/herd)	Fur animal	500 - 750	

3kg/t of Tanica-80 = 2kg/t of ZnO.



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