VTR QINLEWANG (Mannanase) broiler trial protocol in Korea

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1. **Project** :

-To check the influence of Mannanase products on early stage broiler productivity--

To see the difference of competing products (Hemicell vs QINLEWANG)

2. Method and material:

1) Test period : 2013.9. 5 ~ 2013.10.10 (35days)

2) Test place : Sang-ju, Kyungsang book-do, Korea

3) Test animal : A.A total 3house (about 17,000 birds per house)

4) Test feed : general commercial feed

5) Test design

Control	T1	T2	소요량
Commercial feed + Competitor's	Commercial feed + Competitor's (Hemicell)	Commercial feed + Qinlewang 0.05%	(Hemicell) 160kg Qinlewang 150kg

3. Result:

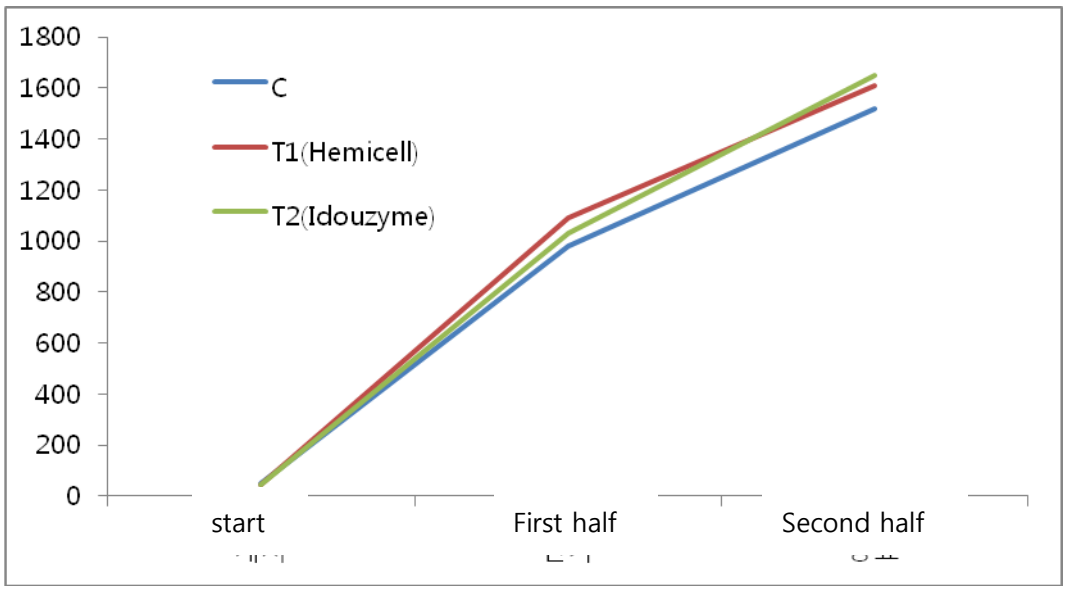
1) Weight

Weight	repeat	C	T1	T2
	1	49.51	45.83	46.79
	2	50.29	44.47	45.63
	3	50.68	45.63	46.99
Initial weight	4	49.90	44.85	44.55
(9/5)	5	49.32	45.05	42.80
(unit :g)	6	50.09	44.47	44.47
	Average	49.96	45.05	45.20
	SD	0.50	0.57	1.58
		49.96±0.5	45.05±0.57	45.2±1.58

Weight	Repeat	C	T1	T2
	1	1.006	1.114	1.052
	2	0.96	1.112	1.04
	3	0.984	1.07	1.112
Middle weight	4	1	1.084	0.988
(9/27)	5	0.978	1.11	0.99
(Unit:kg)	6	0.982	1.076	1.048
	Average	0.98	1.09	1.03
	SD	0.01	0.01	0.04
		0.98±0.01	1.09±0.01	1.03±0.04

	Repeat	C	T1	T2
	1	1.600	1.674	1.642
	2	1.496	1.652	1.770
	3	1.474	1.508	1.692
Weight before	4	1.526	1.670	1.698
market	5	1.594	1.648	1.658
(10/ 06)	6	1.428	1.632	1.634
(unit:kg)	7	1.492	1.606	1.648
	8	1.578	1.568	1.590
	9	1.574	1.624	1.684
	10	1.524	1.532	1.578

	Average	1.520	1.610	1.650
	SD	0.05	0.05	0.05
		1.52±0.05	1.61±0.05	1.65±0.05



2) Total Feed Intake

	Control	T1(Hemicell)	T2(Qinlewang)	Total (MT)
Start feed(kg)	3.03	3.03	3.09	9.15
1st half feed(kg)	9.82	9.98	10.26	30.06
2nd half feed(kg)	27.69	28.76	29.39	85.84
Total(kg)	40.54	41.77	42.74	125.05

3) FCR

	Control	T1(Hemicell)	T2(Qinlewang)
FCR	1.622	1.570	1.567

4) Result

- Field trial showed that two enzyme product made significant difference ($p<0.05$) in weight gain, feed intake and FCR.
- There was not much difference between Hemicell and Qinlewang but Qinlewang showed more improved FCR.