

# **Dedication**

**To my Parents ,  
brothers and  
friends with love  
and respect**

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## Appendix [ 1 ]

### The Composition of preacid ( Acidifier ) According to the Manufacture

<b>Formic Acid</b>	<b>Strong antimicrobial</b>	
<b>Phosphoric Acid</b>	<b>PH lowering effect</b>	
<b>Citric Acid</b>	<b>antimicrobial</b>	
<b>Propionic Acid</b>	<b>antimicrobial</b>	
<b>Mateoric Value</b>	<b>Ca : 24.25 %</b>	
	<b>P : 4.35 %</b>	
	<b>ME Poultry : 5.28 Mj /Kg</b>	
<b>Dosage : Hens Layers</b>	<b>Chick age than 19 weeks</b>	<b>3.5 Kg / Ton feed</b>
	<b>Chick age than 37 weeks</b>	<b>3 Kg / Ton feed</b>
	<b>Hens Layers</b>	<b>2.5 Kg / Ton feed</b>

## Appendix [ 2 ]

weekly average maximum and minimum air temperature during the period 5<sup>Th</sup> December 2005 – to – 12<sup>Th</sup> February 2006 .

<b>Weeks</b>	<b>Max . temp . C°</b>	<b>Man . temp . C°</b>
1	36.3	21.0
2	35.0	20.0
3	31.2	19.0
4	30.0	15.0
5	31.0	16.0
6	30.0	14.0
7	29.1	13.0
8	32.6	15.0
9	29.0	13.0
10	31.4	14.0
<b>Average</b>	<b>31.4</b>	<b>16</b>

**Source : Shambat meteorological station .**

### **Appendix [ 3 ]**

weekly average Feed Intake ( g /bird /week ) .



Weeks No	Control Diet	Treatment Diet	L.S
1	682.60±166.9	715.00±54.26	N.S
2	821.88±69.58	791.15±78.96	N.S
3	827.71±87.55	814.06±86.48	N.S
4	796.93±98.74	784.19±77.23	N.S
5	737.92±74.02	742.40±47.53	N.S
6	730.68±80.90	720.16±47.17	N.S
7	699.11±179.3	728.07±46.17	N.S
8	701.82±54.32	684.38±63.86	N.S
9	758.39±60.21	749.90±62.65	N.S
10	780.94±51.01	760.21±70.01	N.S

L.S = Level Significance  
( P > 0.05 )

N.S = Not Significant at 5%

#### **Appendix [ 4 ]**

weekly average Egg Production ( H.H ) ( egg / bird/week ) .  
Values are average { ( egg / bird /week ) ± SD } [ Standard  
Deviation ]

Weeks No	Control Diet	Treatment Diet	L.S
1	5.13±2.11	5.25±2.69	N.S
2	5.24±3.03	5.22±2.34	N.S
3	5.31±2.17	5.34±3.61	N.S
4	5.36±2.89	5.33±3.77	N.S
5	5.17±4.25	5.23±3.65	N.S
6	5.15±4.45	5.25±3.47	N.S
7	5.00±5.98	5.09±3.72	N.S
8	5.12±5.30	5.17±3.92	N.S
9	5.21±2.98	5.09±3.79	N.S
10	5.34±2.92	5.19±4.75	N.S

L.S = Level Significance  
( P > 0.05 )

N.S = Not Significant at 5%

## Appendix [ 5 ]

weekly average Egg Weight ( g / egg ) .

Weeks No	Control Diet	Treatment Diet	L.S
1	53.77±3.56	53.49±3.21	N.S
2	59.53±2.99	60.06±1.67	N.S
3	56.42±3.89	54.36±4.41	N.S

4	59.73±3.54	59.65±2.06	N.S
5	55.76±2.81	55.05±3.28	N.S
6	56.38±2.34	56.68±3.57	N.S
7	55.85±3.38	56.42±3.46	N.S
8	55.11±3.25	55.60±3.35	N.S
9	58.73±2.91	57.58±3.12	N.S
10	60.21±2.54	61.43±4.07	N.S

L.S = Level Significance  
( P > 0.05 )

N.S = Not Significant at 5%

## Appendix [ 6 ]

weekly average Egg Mass ( g /bird /week)

Weeks No	Control Diet	Treatment Diet	L.S
1	321.53±21.65	327.83±35.95	N.S
2	375.91±62.26	366.72±26.30	N.S
3	345.85±32.90	338.98±41.72	N.S
4	370.51±34.50	371.19±41.77	N.S

5	338.07±50.98	342.93±40.21	N.S
6	339.69±49.33	347.97±45.60	N.S
7	326.65±63.36	335.93±43.11	N.S
8	324.24±59.72	329.48±61.59	N.S
9	357.44±35.74	342.52±45.88	N.S
10	375.45±30.35	372.76±60.27	N.S

L.S = Level Significance  
( P > 0.05 )

N.S = Not Significant at 5%