



## Supplementary Material

# Effect of Dietary Inclusion of Sodium Bicarbonate on Production Performance of Caged Layers During Summer

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**Supplementary Table I. Proportion of the ingredients used in the experimental diets.**

Ingredients (%)	A basal diet	B 0.5% NaHCO <sub>3</sub>	C 1% NaHCO <sub>3</sub>	D 1.5% NaHCO <sub>3</sub>	E 2% NaHCO <sub>3</sub>
Maize	31.50	28.00	29.00	30.60	30.60
Rice broken	30.20	30.00	30.00	30.00	30.00
Fish meal	3.60	5.50	7.00	7.00	7.00
Soybean meal	17.00	1.50	0.00	2.00	4.40
Canola meal	4.50	14.00	13.60	11.60	8.40
Rapeseed meal	3.10	3.00	3.00	3.00	3.00
Guar meal	0.00	2.50	3.00	3.00	3.00
Corn gluten 60%	0.00	2.00	2.00	2.00	2.00
Rice polishing	0.00	2.20	2.00	0.00	0.00
Dicalcium phosphate	0.50	0.00	0.00	0.00	0.00
Limestone	9.00	9.00	8.70	8.70	8.70
Mineraland vitamin premix	0.30	0.30	0.30	0.30	0.30
DL-methionine	0.13	0.08	0.07	0.07	0.09
Lys. sulphate 65%	0.00	0.15	0.14	0.13	0.12
Salt	0.23	0.00	0.17	0.17	0.18
Sodium bicarbonate	0.00	0.50	1.00	1.50	2.00
Allzyme	0.015	0.015	0.015	0.015	0.015
Lincomix	0.02	0.02	0.02	0.02	0.02

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**Supplementary Table II. Chemical composition of the experimental diets.**

<b>Nutrients</b>	<b>A basal diet</b>	<b>B 0.5% NaHCO<sub>3</sub></b>	<b>C 1% NaHCO<sub>3</sub></b>	<b>D 1.5% NaHCO<sub>3</sub></b>	<b>E 2% NaHCO<sub>3</sub></b>
ME Kcal/Kg	2700	2700	2700	2700	2700
Crude protein (%)	17.00	17.00	17.00	17.00	17.00
Crude fiber (%)	3.29	3.8	3.74	3.44	3.39
Crude fat (%)	3.27	3.9	3.9	3.67	3.65
Crude ash (%)	11.97	11.9	12.01	11.85	11.89
Calcium (%)	3.9	3.9	3.9	3.9	3.9
Av. Phosphorus (%)	0.37	0.37	0.38	0.38	0.39
Sodium (%)	0.17	0.23	0.43	0.57	0.7
Potassium (%)	0.70	0.53	0.51	0.52	0.52
Chloride (%)	0.22	0.15	0.20	0.20	0.20
Digestible Lys (%)	0.80	0.80	0.80	0.80	0.80
Digest. Met (%)	0.44	0.41	0.42	0.42	0.47
Digest. Thr (%)	0.55	0.56	0.56	0.57	0.57
Digest. Trp (%)	0.16	0.16	0.16	0.16	0.16
Dietary electrolyte balance (DEB)	210	210	261.73	324.9	387.69