

Table 5.1 High nutrient density diet specifications for broilers

<i>Approximate age</i>	<i>0-18d Starter</i>	<i>19-30d Grower</i>	<i>31-41d Finisher</i>	<i>42d+ Withdrawal</i>
<i>Crude Protein (%)</i>	22	20	18	16
<i>Metabolizable Energy (kcal/kg)</i>	3050	3100	3150	3200
<i>Calcium (%)</i>	0.95	0.92	0.89	0.85
<i>Available Phosphorus (%)</i>	0.45	0.41	0.38	0.36
<i>Sodium (%)</i>	0.22	0.21	0.2	0.2
<i>Methionine (%)</i>	0.5	0.44	0.38	0.36
<i>Methionine + Cystine (%)</i>	0.95	0.88	0.75	0.72
<i>Lysine (%)</i>	1.3	1.15	1.0	0.95
<i>Threonine (%)</i>	0.72	0.62	0.55	0.5
<i>Tryptophan (%)</i>	0.22	0.2	0.18	0.16
<i>Arginine (%)</i>	1.4	1.25	1.1	1.0
<i>Valine (%)</i>	0.85	0.66	0.56	0.5
<i>Leucine (%)</i>	1.4	1.1	0.9	0.8
<i>Isoleucine (%)</i>	0.75	0.65	0.55	0.45
<i>Histidine (%)</i>	0.4	0.32	0.28	0.24
<i>Phenylalanine (%)</i>	0.75	0.68	0.6	0.5
<i>Vitamins (per kg of diet)</i>	100%	80%	70%	50%
<i>Vitamin A (I.U)</i>	8000			
<i>Vitamin D₃ (I.U)</i>	3500			
<i>Vitamin E (I.U)</i>	50			
<i>Vitamin K (I.U)</i>	3			
<i>Thiamin (mg)</i>	4			
<i>Riboflavin (mg)</i>	5			
<i>Pyridoxine (mg)</i>	4			
<i>Pantothenic acid (mg)</i>	14			
<i>Folic acid (mg)</i>	1			
<i>Biotin (µg)</i>	100			
<i>Niacin (mg)</i>	40			
<i>Choline (mg)</i>	400			
<i>Vitamin B₁₂ (µg)</i>	12			
<i>Trace minerals (per kg of diet)</i>	100%	80%	70%	50%
<i>Manganese (mg)</i>	70			
<i>Iron (mg)</i>	20			
<i>Copper (mg)</i>	8			
<i>Zinc (mg)</i>	70			
<i>Iodine (mg)</i>	0.5			
<i>Selenium (mg)</i>	0.3			

Table 5.2 Low nutrient density diet specifications for broilers

<i>Approximate age</i>	<i>0-18d Starter</i>	<i>19-30d Grower</i>	<i>31-41d Finisher</i>	<i>42d+ Withdrawal</i>
<i>Crude Protein (%)</i>	21	19	17	15
<i>Metabolizable Energy (kcal/kg)</i>	2850	2900	2950	3000
<i>Calcium (%)</i>	0.95	0.9	0.85	0.8
<i>Available Phosphorus (%)</i>	0.45	0.41	0.36	0.34
<i>Sodium (%)</i>	0.22	0.21	0.19	0.18
<i>Methionine (%)</i>	0.45	0.4	0.35	0.32
<i>Methionine + Cystine (%)</i>	0.9	0.81	0.72	0.7
<i>Lysine (%)</i>	1.2	1.08	0.95	0.92
<i>Threonine (%)</i>	0.68	0.6	0.5	0.45
<i>Tryptophan (%)</i>	0.21	0.19	0.17	0.14
<i>Arginine (%)</i>	1.3	1.15	1.0	0.95
<i>Valine (%)</i>	0.78	0.64	0.52	0.48
<i>Leucine (%)</i>	1.2	0.9	0.8	0.75
<i>Isoleucine (%)</i>	0.68	0.6	0.5	0.42
<i>Histidine (%)</i>	0.37	0.28	0.25	0.21
<i>Phenylalanine (%)</i>	0.7	0.65	0.55	0.46
<i>Vitamins (per kg of diet)</i>	100%	70%	60%	40%
<i>Vitamin A (I.U)</i>	8000			
<i>Vitamin D₃ (I.U)</i>	3500			
<i>Vitamin E (I.U)</i>	50			
<i>Vitamin K (I.U)</i>	3			
<i>Thiamin (mg)</i>	4			
<i>Riboflavin (mg)</i>	5			
<i>Pyridoxine (mg)</i>	4			
<i>Pantothenic acid (mg)</i>	14			
<i>Folic acid (mg)</i>	1			
<i>Biotin (µg)</i>	100			
<i>Niacin (mg)</i>	40			
<i>Choline (mg)</i>	400			
<i>Vitamin B₁₂ (µg)</i>	12			
<i>Trace minerals (per kg of diet)</i>	100%	70%	60%	40%
<i>Manganese (mg)</i>	70			
<i>Iron (mg)</i>	20			
<i>Copper (mg)</i>	8			
<i>Zinc (mg)</i>	70			
<i>Iodine (mg)</i>	0.5			
<i>Selenium (mg)</i>	0.3			