



An Aviagen Brand

Arbor Acres

Broiler Nutrition Specifications

2019



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Introduction

After considerable evaluation and research, it has been decided that the broiler nutrition specifications first released in 2014 are still valid and continue to offer optimum biological performance, therefore the advice has not been changed. These broiler nutrition specifications are suitable for all Arbor Acres® broilers.

Nutrition specifications for Arbor Acres broilers are given in the following tables for a range of production and market situations across the world:

As-Hatched	≤ 1.60 kg (3.50 lb) live weight	Table 1
As-Hatched	1.70 – 2.40 kg (3.75 – 5.30 lb) live weight	Table 2
As-Hatched	2.50 – 3.00 kg (5.50 – 6.60 lb) live weight	Table 3
As-Hatched	3.10 – 3.50 kg (6.85 – 7.70 lb) live weight	Table 4
As-Hatched	3.60 – 4.00 kg (7.95 – 8.80 lb) live weight	Table 5

Modifications may need to be made for specific market conditions. Factors to be considered are:

- Final product - live bird or portioned products - and meat product values.
- The supply and price of feed ingredients.
- Age and live weight at processing.
- Yield and carcass quality.
- Market requirements for skin color, shelf-life, etc.
- Use of sex-separate growing.

The most appropriate diet will be designed to either minimize cost for live bird production or maximize margin over feeding cost for portioned products required by the processing plant. For optimal portions margin, increased dietary amino acid density may be cost-effective.

The energy values used in these specifications are based on assays for Metabolizable Energy published by the World's Poultry Science Association (WPSA). The values for amino acid digestibility are based on Standardized Ileal Digestibility (SID) assays.

The local Aviagen® Nutrition Service Manager or Arbor Acres representative should be consulted for more specialized situations and for advice on local markets.

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Table 1: Nutrition Specifications for As-Hatched Broilers - Target Live Weight ≤ 1.60 kg (3.50 lb).

		STARTER		GROWER		FINISHER	
Age fed	days	0 - 10		11 - 24		25 - MARKET	
Energy per kg	kcal	3000		3100		3200	
	MJ	12.55		12.97		13.39	
AMINO ACIDS		TOTAL	DIGEST¹	TOTAL	DIGEST¹	TOTAL	DIGEST¹
Lysine	%	1.44	1.28	1.29	1.15	1.19	1.06
Methionine & Cystine	%	1.08	0.95	0.99	0.87	0.94	0.83
Methionine	%	0.56	0.51	0.51	0.47	0.48	0.45
Threonine	%	0.97	0.86	0.88	0.77	0.81	0.71
Valine	%	1.10	0.96	1.00	0.87	0.93	0.81
Isoleucine	%	0.97	0.86	0.89	0.78	0.83	0.73
Arginine	%	1.52	1.37	1.37	1.23	1.26	1.13
Tryptophan	%	0.23	0.20	0.21	0.18	0.19	0.17
Leucine	%	1.58	1.41	1.42	1.27	1.31	1.17
Crude Protein ²	%	23.0		21.5		20.0	
MINERALS							
Calcium	%	0.96		0.87		0.81	
Available Phosphorus	%	0.480		0.435		0.405	
Magnesium	%	0.05 - 0.50		0.05 - 0.50		0.05 - 0.50	
Sodium	%	0.16 - 0.23		0.16 - 0.23		0.16 - 0.20	
Chloride	%	0.16 - 0.23		0.16 - 0.23		0.16 - 0.23	
Potassium	%	0.40 - 1.00		0.40 - 0.90		0.40 - 0.90	
ADDED TRACE MINERALS PER KG							
Copper	mg	16		16		16	
Iodine	mg	1.25		1.25		1.25	
Iron	mg	20		20		20	
Manganese	mg	120		120		120	
Selenium	mg	0.30		0.30		0.30	
Zinc	mg	110		110		110	
ADDED VITAMINS PER KG		Wheat Based Feed	Maize Based Feed	Wheat Based Feed	Maize Based Feed	Wheat Based Feed	Maize Based Feed
Vitamin A	IU	13,000	12,000	11,000	10,000	10,000	9000
Vitamin D3	IU	5000	5000	4500	4500	4000	4000
Vitamin E	IU	80	80	65	65	55	55
Vitamin K (Menadione)	mg	3.2	3.2	3.0	3.0	2.2	2.2
Thiamin (B1)	mg	3.2	3.2	2.5	2.5	2.2	2.2
Riboflavin (B2)	mg	8.6	8.6	6.5	6.5	5.4	5.4
Niacin	mg	60	65	55	60	40	45
Pantothenic Acid	mg	17	20	15	18	13	15
Pyridoxine (B6)	mg	5.4	4.3	4.3	3.2	3.2	2.2
Biotin	mg	0.30	0.22	0.25	0.18	0.20	0.15
Folic Acid	mg	2.20	2.20	1.90	1.90	1.60	1.60
Vitamin B12	mg	0.017	0.017	0.017	0.017	0.011	0.011
Minimum Specification							
Choline per kg	mg	1700		1600		1550	
Linoleic Acid	%	1.25		1.20		1.00	

Digest¹ = Digestible

Crude Protein² = Formulation priority is to meet the recommended minimum essential amino acid levels. These crude protein levels are not requirements *per se*, but instead are levels which will likely occur when achieving the aforementioned essential amino acid minimums.

NOTES: *These feed specifications should be used as a guide. They require adjustment for local conditions and markets. A withdrawal feed should be fed to meet local requirements for drug withdrawal times. This can be formulated to the same standards as the finisher or to a slightly lower specification.*

Arbor Acres Broiler *Nutrition Specifications*

Table 2: Nutrition Specifications for As-Hatched Broilers - Target Live Weight 1.70 – 2.40 kg (3.75 – 5.30 lb).

		STARTER		GROWER		FINISHER	
Age fed	days	0 - 10		11 - 24		25 - MARKET	
Energy per kg	kcal	3000		3100		3200	
	MJ	12.55		12.97		13.39	
AMINO ACIDS		TOTAL	DIGEST¹	TOTAL	DIGEST¹	TOTAL	DIGEST¹
Lysine	%	1.44	1.28	1.29	1.15	1.16	1.03
Methionine & Cystine	%	1.08	0.95	0.99	0.87	0.91	0.80
Methionine	%	0.56	0.51	0.51	0.47	0.47	0.43
Threonine	%	0.97	0.86	0.88	0.77	0.78	0.69
Valine	%	1.10	0.96	1.00	0.87	0.90	0.78
Isoleucine	%	0.97	0.86	0.89	0.78	0.81	0.71
Arginine	%	1.52	1.37	1.37	1.23	1.22	1.10
Tryptophan	%	0.23	0.20	0.21	0.18	0.19	0.16
Leucine	%	1.58	1.41	1.42	1.27	1.27	1.13
Crude Protein ²	%	23.0		21.5		19.5	
MINERALS							
Calcium	%	0.96		0.87		0.79	
Available Phosphorus	%	0.480		0.435		0.395	
Magnesium	%	0.05 - 0.50		0.05 - 0.50		0.05 - 0.50	
Sodium	%	0.16 - 0.23		0.16 - 0.23		0.16 - 0.20	
Chloride	%	0.16 - 0.23		0.16 - 0.23		0.16 - 0.23	
Potassium	%	0.40 - 1.00		0.40 - 0.90		0.40 - 0.90	
ADDED TRACE MINERALS PER KG							
Copper	mg	16		16		16	
Iodine	mg	1.25		1.25		1.25	
Iron	mg	20		20		20	
Manganese	mg	120		120		120	
Selenium	mg	0.30		0.30		0.30	
Zinc	mg	110		110		110	
ADDED VITAMINS PER KG		Wheat Based Feed	Maize Based Feed	Wheat Based Feed	Maize Based Feed	Wheat Based Feed	Maize Based Feed
Vitamin A	IU	13,000	12,000	11,000	10,000	10,000	9000
Vitamin D3	IU	5000	5000	4500	4500	4000	4000
Vitamin E	IU	80	80	65	65	55	55
Vitamin K (Menadione)	mg	3.2	3.2	3.0	3.0	2.2	2.2
Thiamin (B1)	mg	3.2	3.2	2.5	2.5	2.2	2.2
Riboflavin (B2)	mg	8.6	8.6	6.5	6.5	5.4	5.4
Niacin	mg	60	65	55	60	40	45
Pantothenic Acid	mg	17	20	15	18	13	15
Pyridoxine (B6)	mg	5.4	4.3	4.3	3.2	3.2	2.2
Biotin	mg	0.30	0.22	0.25	0.18	0.20	0.15
Folic Acid	mg	2.20	2.20	1.90	1.90	1.60	1.60
Vitamin B12	mg	0.017	0.017	0.017	0.017	0.011	0.011
Minimum Specification							
Choline per kg	mg	1700		1600		1550	
Linoleic Acid	%	1.25		1.20		1.00	

Digest¹ = Digestible

Crude Protein² = Formulation priority is to meet the recommended minimum essential amino acid levels. These crude protein levels are not requirements *per se*, but instead are levels which will likely occur when achieving the aforementioned essential amino acid minimums.

NOTES: These feed specifications should be used as a guide. They require adjustment for local conditions and markets. A withdrawal feed should be fed to meet local requirements for drug withdrawal times. This can be formulated to the same standards as the finisher or to a slightly lower specification.

Table 3: Nutrition Specifications for As-Hatched Broilers - Target Live Weight 2.50 – 3.00 kg (5.50 – 6.60 lb).

		STARTER		GROWER		FINISHER 1		FINISHER 2	
Age fed	days	0 - 10		11 - 24		25 - 39		40 - MARKET	
Energy per kg	kcal	3000		3100		3200		3200	
	MJ	12.55		12.97		13.39		13.39	
AMINO ACIDS		TOTAL	DIGEST¹	TOTAL	DIGEST¹	TOTAL	DIGEST¹	TOTAL	DIGEST¹
Lysine	%	1.44	1.28	1.29	1.15	1.15	1.02	1.08	0.96
Methionine & Cystine	%	1.08	0.95	0.99	0.87	0.90	0.80	0.85	0.75
Methionine	%	0.56	0.51	0.51	0.47	0.47	0.43	0.44	0.40
Threonine	%	0.97	0.86	0.88	0.77	0.78	0.68	0.73	0.64
Valine	%	1.10	0.96	1.00	0.87	0.89	0.78	0.84	0.73
Isoleucine	%	0.97	0.86	0.89	0.78	0.80	0.70	0.75	0.66
Arginine	%	1.52	1.37	1.37	1.23	1.21	1.09	1.14	1.03
Tryptophan	%	0.23	0.20	0.21	0.18	0.18	0.16	0.17	0.15
Leucine	%	1.58	1.41	1.42	1.27	1.26	1.12	1.19	1.06
Crude Protein ²	%	23.0		21.5		19.5		18.3	
MINERALS									
Calcium	%	0.96		0.87		0.78		0.75	
Available Phosphorus	%	0.480		0.435		0.390		0.375	
Magnesium	%	0.05 - 0.50		0.05 - 0.50		0.05 - 0.50		0.05 - 0.50	
Sodium	%	0.16 - 0.23		0.16 - 0.23		0.16 - 0.20		0.16 - 0.20	
Chloride	%	0.16 - 0.23		0.16 - 0.23		0.16 - 0.23		0.16 - 0.23	
Potassium	%	0.40 - 1.00		0.40 - 0.90		0.40 - 0.90		0.40 - 0.90	
ADDED TRACE MINERALS PER KG									
Copper	mg	16		16		16		16	
Iodine	mg	1.25		1.25		1.25		1.25	
Iron	mg	20		20		20		20	
Manganese	mg	120		120		120		120	
Selenium	mg	0.30		0.30		0.30		0.30	
Zinc	mg	110		110		110		110	
ADDED VITAMINS PER KG		Wheat Based Feed	Maize Based Feed	Wheat Based Feed	Maize Based Feed	Wheat Based Feed	Maize Based Feed	Wheat Based Feed	Maize Based Feed
Vitamin A	IU	13,000	12,000	11,000	10,000	10,000	9000	10,000	9000
Vitamin D3	IU	5000	5000	4500	4500	4000	4000	4000	4000
Vitamin E	IU	80	80	65	65	55	55	55	55
Vitamin K (Menadione)	mg	3.2	3.2	3.0	3.0	2.2	2.2	2.2	2.2
Thiamin (B1)	mg	3.2	3.2	2.5	2.5	2.2	2.2	2.2	2.2
Riboflavin (B2)	mg	8.6	8.6	6.5	6.5	5.4	5.4	5.4	5.4
Niacin	mg	60	65	55	60	40	45	40	45
Pantothenic Acid	mg	17	20	15	18	13	15	13	15
Pyridoxine (B6)	mg	5.4	4.3	4.3	3.2	3.2	2.2	3.2	2.2
Biotin	mg	0.30	0.22	0.25	0.18	0.20	0.15	0.20	0.15
Folic Acid	mg	2.20	2.20	1.90	1.90	1.60	1.60	1.60	1.60
Vitamin B12	mg	0.017	0.017	0.017	0.017	0.011	0.011	0.011	0.011
Minimum Specification									
Choline per kg	mg	1700		1600		1500		1450	
Linoleic Acid	%	1.25		1.20		1.00		1.00	

Digest¹ = Digestible

Crude Protein² = Formulation priority is to meet the recommended minimum essential amino acid levels. These crude protein levels are not requirements *per se*, but instead are levels which will likely occur when achieving the aforementioned essential amino acid minimums.

NOTES: These feed specifications should be used as a guide. They require adjustment for local conditions and markets. A withdrawal feed should be fed to meet local requirements for drug withdrawal times. This can be formulated to the same standards as the finisher or to a slightly lower specification.

Arbor Acres Broiler *Nutrition Specifications*

Table 4: Nutrition Specifications for As-Hatched Broilers - Target Live Weight 3.10 – 3.50 kg (6.85 – 7.70 lb).

		STARTER		GROWER		FINISHER 1		FINISHER 2		FINISHER 3	
Age fed	days	0 - 10		11 - 24		25 - 39		40 - 46		47 - MARKET	
Energy per kg	kcal	3000		3100		3200		3225		3225	
	MJ	12.55		12.97		13.39		13.49		13.49	
AMINO ACIDS		TOTAL	DIGEST¹	TOTAL	DIGEST¹	TOTAL	DIGEST¹	TOTAL	DIGEST¹	TOTAL	DIGEST¹
Lysine	%	1.44	1.28	1.29	1.15	1.15	1.02	1.08	0.96	1.04	0.93
Methionine & Cystine	%	1.08	0.95	0.99	0.87	0.90	0.80	0.85	0.75	0.82	0.73
Methionine	%	0.56	0.51	0.51	0.47	0.47	0.43	0.44	0.40	0.42	0.39
Threonine	%	0.97	0.86	0.88	0.77	0.78	0.68	0.73	0.64	0.71	0.62
Valine	%	1.10	0.96	1.00	0.87	0.89	0.78	0.86	0.75	0.83	0.73
Isoleucine	%	0.97	0.86	0.89	0.78	0.80	0.70	0.75	0.66	0.73	0.64
Arginine	%	1.52	1.37	1.37	1.23	1.21	1.09	1.15	1.04	1.12	1.00
Tryptophan	%	0.23	0.20	0.21	0.18	0.18	0.16	0.17	0.15	0.17	0.15
Leucine	%	1.58	1.41	1.42	1.27	1.26	1.12	1.19	1.06	1.15	1.02
Crude Protein ²	%	23.0		21.5		19.5		18.0		17.5	
MINERALS											
Calcium	%	0.96		0.87		0.78		0.74		0.73	
Available Phosphorus	%	0.480		0.435		0.390		0.370		0.365	
Magnesium	%	0.05 - 0.50		0.05 - 0.50		0.05 - 0.50		0.05 - 0.50		0.05 - 0.50	
Sodium	%	0.16 - 0.23		0.16 - 0.23		0.16 - 0.20		0.16 - 0.20		0.16 - 0.20	
Chloride	%	0.16 - 0.23		0.16 - 0.23		0.16 - 0.23		0.16 - 0.23		0.16 - 0.23	
Potassium	%	0.40 - 1.00		0.40 - 0.90		0.40 - 0.90		0.40 - 0.90		0.40 - 0.90	
ADDED TRACE MINERALS PER KG											
Copper	mg	16		16		16		16		16	
Iodine	mg	1.25		1.25		1.25		1.25		1.25	
Iron	mg	20		20		20		20		20	
Manganese	mg	120		120		120		120		120	
Selenium	mg	0.30		0.30		0.30		0.30		0.30	
Zinc	mg	110		110		110		110		110	
ADDED VITAMINS PER KG		Wheat Based Feed	Maize Based Feed	Wheat Based Feed	Maize Based Feed	Wheat Based Feed	Maize Based Feed	Wheat Based Feed	Maize Based Feed	Wheat Based Feed	Maize Based Feed
Vitamin A	IU	13,000	12,000	11,000	10,000	10,000	9000	10,000	9000	10,000	9000
Vitamin D3	IU	5000	5000	4500	4500	4000	4000	4000	4000	4000	4000
Vitamin E	IU	80	80	65	65	55	55	55	55	55	55
Vitamin K (Menadione)	mg	3.2	3.2	3.0	3.0	2.2	2.2	2.2	2.2	2.2	2.2
Thiamin (B1)	mg	3.2	3.2	2.5	2.5	2.2	2.2	2.2	2.2	2.2	2.2
Riboflavin (B2)	mg	8.6	8.6	6.5	6.5	5.4	5.4	5.4	5.4	5.4	5.4
Niacin	mg	60	65	55	60	40	45	40	45	40	45
Pantothenic Acid	mg	17	20	15	18	13	15	13	15	13	15
Pyridoxine (B6)	mg	5.4	4.3	4.3	3.2	3.2	2.2	3.2	2.2	3.2	2.2
Biotin	mg	0.30	0.22	0.25	0.18	0.20	0.15	0.20	0.15	0.20	0.15
Folic Acid	mg	2.20	2.20	1.90	1.90	1.60	1.60	1.60	1.60	1.60	1.60
Vitamin B12	mg	0.017	0.017	0.017	0.017	0.011	0.011	0.011	0.011	0.011	0.011
Minimum Specification											
Choline per kg	mg	1700		1600		1500		1450		1400	
Linoleic Acid	%	1.25		1.20		1.00		1.00		1.00	

Digest¹ = Digestible
 Crude Protein² = Formulation priority is to meet the recommended minimum essential amino acid levels. These crude protein levels are not requirements *per se*, but instead are levels which will likely occur when achieving the aforementioned essential amino acid minimums.

NOTES: *These feed specifications should be used as a guide. They require adjustment for local conditions and markets. A withdrawal feed should be fed to meet local requirements for drug withdrawal times. This can be formulated to the same standards as the finisher or to a slightly lower specification.*

Table 5: Nutrition Specifications for As-Hatched Broilers - Target Live Weight 3.60 – 4.00 kg (7.95 – 8.80 lb).

		STARTER		GROWER		FINISHER 1		FINISHER 2		FINISHER 3	
Age fed	days	0 - 10		11 - 24		25 - 39		40 - 51		52 - MARKET	
Energy per kg	kcal	3000		3100		3200		3225		3225	
	MJ	12.55		12.97		13.39		13.49		13.49	
AMINO ACIDS		TOTAL	DIGEST¹	TOTAL	DIGEST¹	TOTAL	DIGEST¹	TOTAL	DIGEST¹	TOTAL	DIGEST¹
Lysine	%	1.44	1.28	1.29	1.15	1.15	1.02	1.07	0.95	1.02	0.91
Methionine & Cystine	%	1.08	0.95	0.99	0.87	0.90	0.80	0.84	0.74	0.81	0.71
Methionine	%	0.56	0.51	0.51	0.47	0.47	0.43	0.43	0.40	0.42	0.38
Threonine	%	0.97	0.86	0.88	0.77	0.78	0.68	0.72	0.64	0.69	0.61
Valine	%	1.10	0.96	1.00	0.87	0.89	0.78	0.85	0.74	0.82	0.71
Isoleucine	%	0.97	0.86	0.89	0.78	0.80	0.70	0.74	0.66	0.71	0.63
Arginine	%	1.52	1.37	1.37	1.23	1.21	1.09	1.14	1.03	1.09	0.98
Tryptophan	%	0.23	0.20	0.21	0.18	0.18	0.16	0.17	0.15	0.16	0.15
Leucine	%	1.58	1.41	1.42	1.27	1.26	1.12	1.17	1.05	1.12	1.00
Crude Protein ²	%	23.0		21.5		19.5		18.0		17.0	
MINERALS											
Calcium	%	0.96		0.87		0.78		0.74		0.72	
Available Phosphorus	%	0.480		0.435		0.390		0.370		0.360	
Magnesium	%	0.05 - 0.50		0.05 - 0.50		0.05 - 0.50		0.05 - 0.50		0.05 - 0.50	
Sodium	%	0.16 - 0.23		0.16 - 0.23		0.16 - 0.20		0.16 - 0.20		0.16 - 0.20	
Chloride	%	0.16 - 0.23		0.16 - 0.23		0.16 - 0.23		0.16 - 0.23		0.16 - 0.23	
Potassium	%	0.40 - 1.00		0.40 - 0.90		0.40 - 0.90		0.40 - 0.90		0.40 - 0.90	
ADDED TRACE MINERALS PER KG											
Copper	mg	16		16		16		16		16	
Iodine	mg	1.25		1.25		1.25		1.25		1.25	
Iron	mg	20		20		20		20		20	
Manganese	mg	120		120		120		120		120	
Selenium	mg	0.30		0.30		0.30		0.30		0.30	
Zinc	mg	110		110		110		110		110	
ADDED VITAMINS PER KG		Wheat Based Feed	Maize Based Feed	Wheat Based Feed	Maize Based Feed	Wheat Based Feed	Maize Based Feed	Wheat Based Feed	Maize Based Feed	Wheat Based Feed	Maize Based Feed
Vitamin A	IU	13,000	12,000	11,000	10,000	10,000	9000	10,000	9000	10,000	9000
Vitamin D3	IU	5000	5000	4500	4500	4000	4000	4000	4000	4000	4000
Vitamin E	IU	80	80	65	65	55	55	55	55	55	55
Vitamin K (Menadione)	mg	3.2	3.2	3.0	3.0	2.2	2.2	2.2	2.2	2.2	2.2
Thiamin (B1)	mg	3.2	3.2	2.5	2.5	2.2	2.2	2.2	2.2	2.2	2.2
Riboflavin (B2)	mg	8.6	8.6	6.5	6.5	5.4	5.4	5.4	5.4	5.4	5.4
Nicotinic Acid	mg	60	65	55	60	40	45	40	45	40	45
Pantothenic Acid	mg	17	20	15	18	13	15	13	15	13	15
Pyridoxine (B6)	mg	5.4	4.3	4.3	3.2	3.2	2.2	3.2	2.2	3.2	2.2
Biotin	mg	0.30	0.22	0.25	0.18	0.20	0.15	0.20	0.15	0.20	0.15
Folic Acid	mg	2.20	2.20	1.90	1.90	1.60	1.60	1.60	1.60	1.60	1.60
Vitamin B12	mg	0.017	0.017	0.017	0.017	0.011	0.011	0.011	0.011	0.011	0.011
Minimum Specification											
Choline per kg	mg	1700		1600		1500		1450		1400	
Linoleic Acid	%	1.25		1.20		1.00		1.00		1.00	

Digest¹ = Digestible
 Crude Protein² = Formulation priority is to meet the recommended minimum essential amino acid levels. These crude protein levels are not requirements *per se*, but instead are levels which will likely occur when achieving the aforementioned essential amino acid minimums.

NOTES: *These feed specifications should be used as a guide. They require adjustment for local conditions and markets. A withdrawal feed should be fed to meet local requirements for drug withdrawal times. This can be formulated to the same standards as the finisher or to a slightly lower specification.*



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