

Test Result on Nutritional Composition of 21 Infant Formulae (16 November 2012)

Composition / Nutrient	Unit	Codex Standard	Abbott Similac Isomil Soy Infant Formula 1	Abbott Similac NeoSure	Ausnutria Allnutria New Birth Formula Milk Powder 1	Ausnutria Allnutria Infant Formula Milk Powder 2	Babynat Organic Infant Milk	Bimbosan Bisoja Soy Infant Milk Powder [Packed in bags]
Energy	kcal/100g	[60 - 70 kcal/100ml]	510	510	510	510	490	490
Protein	g/100kcal	1.8 - 3.0	2.6	2.6	2.4	2.4	2.1	2.5
Total fat	g/100kcal	4.4 - 6.0	5.2	5.4	5.0	5.2	4.6	4.6
Linoleic acid	mg/100kcal	300 - 1400*	1000	900	930	940	590	800
alpha-Linolenic acid	mg/100kcal	50 - NS	97	88	72	73	83	76
Total carbohydrates	g/100kcal	9.0 - 14.0	11	10	11	11	13	12
Vitamin A	ugRE/100kcal	60 - 180	120	170	110	110	120	75
Vitamin D3	ug/100kcal	1 - 2.5	2.2	2.1	2.1	2.2	2.3	2.4
Vitamin E	mg alpha-TE /100kcal	0.5 - 5*	1.8	3.8	1.3	1.4	1.0	1.7
Vitamin K	ug/100kcal	4 - 27*	8.6	18	8.0	8.0	7.2	6.6
Thiamin	ug/100kcal	60 - 300*	97	230	120	100	130	130
Riboflavin	ug/100kcal	80 - 500*	130	330	300	300	300	160
Niacin	ug/100kcal	300 - 1500*	1100	1500	1300	1300	1000	1300
Vitamin B6	ug/100kcal	35 - 175*	73	170	81	100	81	160
Vitamin B12	ug/100kcal	0.1 - 1.5*	0.28	0.62	0.50	0.51	0.43	0.20
Pantothenic acid	ug/100kcal	400 - 2000*	960	1200	1000	990	830	850
Folic acid	ug/100kcal	10 - 50*	18	32	30	33	12	15
Vitamin C	mg/100kcal	10 - 70*	19	31	15	14	15	23
Biotin	ug/100kcal	1.5 - 10*	3.8	10	6.4	6.0	4.1	14
Iron	mg/100kcal	0.45 - NS	1.7	1.9	1.2	1.2	1.2	1.6
Calcium	mg/100kcal	50 - 140*	130	120	82	89	95	86
Phosphorus	mg/100kcal	25 - 100*	79	67	56	60	70	57
Magnesium	mg/100kcal	5 - 15*	8.5	10	9.2	10	14	12
Sodium	mg/100kcal	20 - 60	40	29	29	29	38	33
Chloride	mg/100kcal	50 - 160	89	88	60	61	70	76
Potassium	mg/100kcal	60 - 180	130	150	100	100	100	110
Manganese	ug/100kcal	1 - 100*	68	8.0	11	11	8.0	47
Selenium	ug/100kcal	1 - 9*	2.6	2.9	2.3	2.2	2.8	2.0
Copper	ug/100kcal	35 - 120*	83	110	67	68	140	80
Zinc	mg/100kcal	0.5 - 1.5*	1.2	1.3	0.67	0.65	0.94	1.1
Choline	mg/100kcal	7 - 50*	14	20	19	19	23	14
Myo-Inositol	mg/100kcal	4 - 40*	17	7.7	14	13	12	6.8
L-Carnitine	mg/100kcal	1.2 - NS	2.2	6.5	3.7	3.1	3.9	1.7

Note:

NS = Not Specified

* Guidance Upper Level

Level exceeding Codex standard

Test Result on Nutritional Composition of 21 Infant Formulae (16 November 2012)

Composition / Nutrient	Unit	Codex Standard	Gilbert Laboratoires Osmolac-Diarrheic episode	Gilbert Laboratoires Physiolac - Hypo-Allergenic Formula	Holle Organic Infant Formula 1	Les Viva Organic Infant Formula	Mead Johnson Enfamil A+ LactoFree Infant Formula
Energy	kcal/100g	[60 - 70 kcal/100ml]	490	510	510	470	510
Protein	g/100kcal	1.8 - 3.0	2.9	2.3	2.2	6.2 #	2.2
Total fat	g/100kcal	4.4 - 6.0	4.5	5.1	5.1	4.4	5.3
Linoleic acid	mg/100kcal	300 - 1400*	760	1100	910	1300	940
alpha-Linolenic acid	mg/100kcal	50 - NS	68	93	120	180	79
Total carbohydrates	g/100kcal	9.0 - 14.0	12	11	11	9.3	11
Vitamin A	ugRE/100kcal	60 - 180	76	140	90	64	100
Vitamin D3	ug/100kcal	1 - 2.5	2.5	2.2	1.9	1.8	1.6
Vitamin E	mg alpha-TE /100kcal	0.5 - 5*	1.3	2.7	3.1	1.8	1.9
Vitamin K	ug/100kcal	4 - 27*	8.9	10	11	14	17
Thiamin	ug/100kcal	60 - 300*	67	120	120	68	66
Riboflavin	ug/100kcal	80 - 500*	220	240	370	300	100
Niacin	ug/100kcal	300 - 1500*	1400	1100	650	610	1100
Vitamin B6	ug/100kcal	35 - 175*	98	130	61	93	55
Vitamin B12	ug/100kcal	0.1 - 1.5*	0.47	0.26	0.35	0.63	0.43
Pantothenic acid	ug/100kcal	400 - 2000*	850	500	920	740	470
Folic acid	ug/100kcal	10 - 50*	22	13	31	11	15
Vitamin C	mg/100kcal	10 - 70*	16	14	17	12	14
Biotin	ug/100kcal	1.5 - 10*	2.3	5.7	2.6	4.0	2.6
Iron	mg/100kcal	0.45 - NS	0.63	1.2	0.57	1.2	1.8
Calcium	mg/100kcal	50 - 140*	98	87	86	89	120
Phosphorus	mg/100kcal	25 - 100*	54	49	63	100	82
Magnesium	mg/100kcal	5 - 15*	10	9.5	10	25	12
Sodium	mg/100kcal	20 - 60	43	36	48	70	53
Chloride	mg/100kcal	50 - 160	76	66	82	120	84
Potassium	mg/100kcal	60 - 180	110	99	130	270 #	110
Manganese	ug/100kcal	1 - 100*	60	100	18	130	75
Selenium	ug/100kcal	1 - 9*	2.7	3.3	3.0	4.0	2.7
Copper	ug/100kcal	35 - 120*	64	70	53	130	130
Zinc	mg/100kcal	0.5 - 1.5*	0.71	1.5	0.74	0.71	1.1
Choline	mg/100kcal	7 - 50*	16	9.8	17	21	25
Myo-Inositol	mg/100kcal	4 - 40*	6.5	5.7	6.9	5.3	19
L-Carnitine	mg/100kcal	1.2 - NS	2.4	1.6	4.3	1.5	2.4

Note:

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* Guidance Upper Level

Level exceeding Codex standard

Test Result on Nutritional Composition of 21 Infant Formulae (16 November 2012)

Composition / Nutrient	Unit	Codex Standard	Namyang XO Five Secret 1	Namyang XO Five Secret 2	Nature's Baby Formula (Stage N)	Nature's Baby Formula (Stage 1)	PBM Nutritionals Infant Formula for Newborns
Energy	kcal/100g	[60 - 70 kcal/100ml]	520	510	470	470	510
Protein	g/100kcal	1.8 - 3.0	2.4	2.8	2.9	2.9	2.5
Total fat	g/100kcal	4.4 - 6.0	5.4	5.2	4.4	4.4	5.3
Linoleic acid	mg/100kcal	300 - 1400*	890	820	630	590	890
alpha-Linolenic acid	mg/100kcal	50 - NS	67	61	66	62	92
Total carbohydrates	g/100kcal	9.0 - 14.0	10	11	12	12	11
Vitamin A	ugRE/100kcal	60 - 180	97	100	150	160	130
Vitamin D3	ug/100kcal	1 - 2.5	2.0	2.0	2.3	1.7	2.4
Vitamin E	mg alpha-TE /100kcal	0.5 - 5*	1.7	1.7	2.6	2.5	3.4
Vitamin K	ug/100kcal	4 - 27*	7.8	7.3	14	12	12
Thiamin	ug/100kcal	60 - 300*	150	140	230	190	93
Riboflavin	ug/100kcal	80 - 500*	380	370	420	410	170
Niacin	ug/100kcal	300 - 1500*	1400	1400	1100	1000	1400
Vitamin B6	ug/100kcal	35 - 175*	130	130	97	150	72
Vitamin B12	ug/100kcal	0.1 - 1.5*	0.92	0.94	0.60	0.66	0.37
Pantothenic acid	ug/100kcal	400 - 2000*	870	1000	990	870	900
Folic acid	ug/100kcal	10 - 50*	33	37	25	23	23
Vitamin C	mg/100kcal	10 - 70*	18	18	17	17	18
Biotin	ug/100kcal	1.5 - 10*	6.2	5.9	7.0	4.8	2.6
Iron	mg/100kcal	0.45 - NS	1.1	1.4	1.2	1.4	1.2
Calcium	mg/100kcal	50 - 140*	93	100	97	95	85
Phosphorus	mg/100kcal	25 - 100*	57	62	76	74	65
Magnesium	mg/100kcal	5 - 15*	11	12	9.8	9.7	8.7
Sodium	mg/100kcal	20 - 60	30	33	33	34	31
Chloride	mg/100kcal	50 - 160	64	65	84	74	78
Potassium	mg/100kcal	60 - 180	110	110	130	130	140
Manganese	ug/100kcal	1 - 100*	16	16	53	19	21
Selenium	ug/100kcal	1 - 9*	1.5	2.0	3.7	3.6	5.1
Copper	ug/100kcal	35 - 120*	77	80	180	140	82
Zinc	mg/100kcal	0.5 - 1.5*	0.76	0.80	1.4	1.8	1.1
Choline	mg/100kcal	7 - 50*	19	18	18	16	13
Myo-Inositol	mg/100kcal	4 - 40*	11	11	5.6	6.0	4.1
L-Carnitine	mg/100kcal	1.2 - NS	2.2	2.2	3.7	2.7	1.6

Note:

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* Guidance Upper Level

Level exceeding Codex standard

Test Result on Nutritional Composition of 21 Infant Formulae (16 November 2012)

Composition / Nutrient	Unit	Codex Standard	S-8 Komplex Infant Formula 1	Ustrong Infant Formula 1	WIOM Infant Formula Stage 1	Wyeth Illuma Infant Formula Milk Powder Stage 1	Wyeth S-26 HA Gold Hypoantigenic Infant Formula Powder
Energy	kcal/100g	[60 - 70 kcal/100ml]	490	500	510	500	520
Protein	g/100kcal	1.8 - 3.0	2.3	2.1	2.3	2.1	2.4
Total fat	g/100kcal	4.4 - 6.0	4.7	5.2	5.1	4.8	5.3
Linoleic acid	mg/100kcal	300 - 1400*	810	710	830	840	780
alpha-Linolenic acid	mg/100kcal	50 - NS	100	69	67	59	57
Total carbohydrates	g/100kcal	9.0 - 14.0	12	11	11	12	11
Vitamin A	ugRE/100kcal	60 - 180	130	150	120	85	98
Vitamin D3	ug/100kcal	1 - 2.5	2.4	2.3	2.3	1.9	1.9
Vitamin E	mg alpha-TE /100kcal	0.5 - 5*	3.7	3.7	4.9	1.6	2.1
Vitamin K	ug/100kcal	4 - 27*	14	15	12	12	10
Thiamin	ug/100kcal	60 - 300*	150	180	150	170	69
Riboflavin	ug/100kcal	80 - 500*	180	230	320	210	230
Niacin	ug/100kcal	300 - 1500*	940	1400	980	940	840
Vitamin B6	ug/100kcal	35 - 175*	120	46	76	120	110
Vitamin B12	ug/100kcal	0.1 - 1.5*	0.51	1.0	0.81	0.40	0.42
Pantothenic acid	ug/100kcal	400 - 2000*	680	850	970	1100	650
Folic acid	ug/100kcal	10 - 50*	18	27	20	25	13
Vitamin C	mg/100kcal	10 - 70*	20	44	14	13	20
Biotin	ug/100kcal	1.5 - 10*	3.0	3.9	4.8	3.6	2.6
Iron	mg/100kcal	0.45 - NS	1.1	1.6	1.4	1.3	1.3
Calcium	mg/100kcal	50 - 140*	93	100	72	64	67
Phosphorus	mg/100kcal	25 - 100*	58	49	49	37	47
Magnesium	mg/100kcal	5 - 15*	10	14	9.0	9.9	11
Sodium	mg/100kcal	20 - 60	37	34	27	30	34
Chloride	mg/100kcal	50 - 160	68	74	68	71	84
Potassium	mg/100kcal	60 - 180	120	130	74	92	110
Manganese	ug/100kcal	1 - 100*	21	23	15	20	9.8
Selenium	ug/100kcal	1 - 9*	3.9	4.5	1.8	3.2	3.2
Copper	ug/100kcal	35 - 120*	86	73	78	86	87
Zinc	mg/100kcal	0.5 - 1.5*	1.0	1.5	1.4	1.0	0.94
Choline	mg/100kcal	7 - 50*	20	23	28	12	17
Myo-Inositol	mg/100kcal	4 - 40*	8.4	8.5	6.2	7.0	5.4
L-Carnitine	mg/100kcal	1.2 - NS	2.5	1.2	2.8	2.3	2.2

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Level exceeding Codex standard