

Nutritional Composition of Special Infant Formulas[†]



Mead Johnson Careline: 01895 230575



For healthcare professional use only



[†]Food For Special Medical Purposes.

Nutramigen* LIPIL

First for cow's milk allergy

- Extensively hydrolysed formula (eHF) with more than 70 years of clinical experience.
- The only eHF with clinical evidence of oral tolerance².

Degree of Hydrolysis



Whole protein
Cow's milk formula



95% of protein <1000 daltons,
Nutramigen 1&2, Pregestimil¹

Excellent nutritional profile:

- Nutramigen LIPIL 1** suitable for use from birth onwards.
- Nutramigen LIPIL 2** - NEW IMPROVED TASTE. Tailored to meet nutritional needs from 6 months as part of a varied diet.
- With 0.3% DHA of total fatty acids, which is clinically proven to support normal cognitive and visual development^{3,4}.

Nutramigen PURAMINO*

First for Severe/Multiple Food Allergy

- New name**, previously Nutramigen AA.
- Same Trusted Protein*** source - 100% non-allergenic amino acids⁵.
- Improved Fat Blend**, now with 33% MCT oil, provides a more readily available source of energy in infants with CMA plus failure to thrive and gastroenteropathy⁶.
- Certified halal and kosher.
- With 0.3% DHA** of total fatty acids, which is clinically proven to support normal cognitive and visual development^{3,4}.

FOR ENTERAL USE ONLY.

Preparation instructions for all formulas: Bottle Feeding: Add one full level scoop of powder to 30ml of previously boiled water left to cool for 30 minutes (for Enfamil AR let it cool to room temperature) prior to mixing. Cap the bottle and roll it between your hands, then shake it up and down.
Tube Feeding Enfamil AR: After aspirating always flush the tube with water. The feed may thicken on contact with residual acid in the tube if it is not flushed.
Important for baby's health: Proper hygiene, preparation, dilution, use and storage are important when preparing infants feeds. Powdered formulas intended for infants are not sterile and should not be fed to premature infants or infants who might have immune problems unless directed and supervised by the baby's healthcare professional.
Storage instructions for prepared formula: Once prepared, formula can spoil quickly. Feed immediately after preparation or cover and store in a refrigerator at 2-4 °C for no longer than 24 hours. Do not use prepared formula if it is unrefrigerated for more than a total of 2 hours. After feeding begins use within 1 hour and do not refrigerate feeding bottle. Throw away prepared formula left in the bottle and clean the utensils.

Pregestimil*

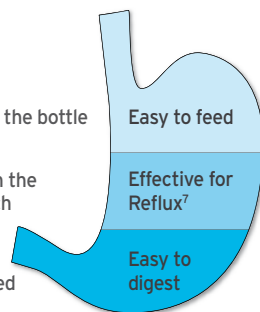
First for Allergy, Malabsorption and Maldigestion

- Contains 55% of fat as MCT oil - fatty acid profile specifically designed for fat malabsorption.
- Same extensively hydrolysed protein as in Nutramigen¹.
- With 0.3% DHA of total fatty acids, which is clinically proven to support normal cognitive and visual development^{3,4}.

Enfamil* A.R.

First for Infant Reflux

- Pre-thickened formula proven to reduce regurgitation⁷.
- Easy to feed - fluid in the bottle, thick in the stomach.
- Well tolerated - rice starch thickener easily digested^{8,9}.



Fluid in the bottle
Easy to feed
Flows through standard teat

Thick in the stomach
Effective for Reflux⁷
Thickens on contact with gastric acid

Well tolerated
Easy to digest
Contains readily digested rice starch^{8,9}

Precautions: Do not combine with separate feed thickeners (eg. Gaviscon[®] Infant, Carobel[®])

Summary of Mead Johnson Special Infant Formulas

	Nutramigen 1 [†]	Nutramigen 2 [†]	Nutramigen PURAMINO	Pregestimil [†]	Enfamil AR [†]
Suitable from birth	✓	From 6-12 months as part of a varied diet	✓	✓	✓
Scoop size, g	4.5	4.7	4.5	4.5	4.5
Std Concentration %	13.6	14.1	13.6	13.5	13.5
Lactose Free	✓	✓	✓	✓	x
Gluten Free	✓	✓	✓	✓	✓
Protein	Ex. hydrolysed	Ex. hydrolysed	Amino Acid	Ex. hydrolysed	Cow's milk
Fat source	Palm olein oil Coconut oil Soya oil, single cell oils High oleic sunflower oil	Palm olein oil Coconut oil Soya oil, single cell oils High oleic sunflower oil	High oleic sunflower oil, MCT oil, soya oil, single cell oils	MCT oil (55%) Coconut oil Soya oil, single cell oils High oleic sunflower oil	Palm olein oil Coconut oil Soya oil, single cell oils High oleic sunflower oil
MCT oil %	x	x	33%	55%	x
Vegetarian	x	x	x	x	x
Vegan	x	x	x	x	x
Halal & Kosher	x	x	✓	x	x
ACBS approved [*]	✓	✓	✓	✓	✓
UK Pharmacy PIP Order Code	019-8861	298-7766	338-3304	043-4050	225-5271

[†]May not be suitable for some cultural groups ^{*}Prescribable on forms: FP10 / EC10 (GP10 in Scotland). Prescriptions should be endorsed "ACBS"

Reference Nutrient Intakes (RNI'S) of Selected Nutrients¹⁰

Age	Energy (EAR)		Protein	Sodium	Potassium	Vitamin C	Calcium	Iron
	kcal/day		g/day	mmol/day	mmol/day	mg/day	mmol/day	mcmmol/day
	kcal/kg/day		g/kg/day	mmol/kg/day	mmol/kg/day	mg/day	mg/day	mg/day
	Male (M)	Female (F)	M & F	M & F	M & F	M & F	M & F	M & F
0-3 months	545	515	12.5	9	20	25	13.1	30
	115-100	115-100	2.1	1.5	3.4		524	1.7
4-6 months	690	645	12.7	12	22	25	13.1	80
	95	95	1.6	1.6	2.8		524	4.5
7-9 months	825	765	13.7	14	18	25	13.1	140
	95	95	1.5	1.6	2.0		524	7.8
10-12 months	920	865	14.9	15	18	25	13.1	140
	95	95	1.5	1.5	1.8		524	7.8
1-3 years	1230	1165	14.5	22	20	30	8.8	120
	95	95	1.1	1.7	1.6		352	6.7

References: 1. Du Toit G et al. Arch Dis Child Educ Pract Ed 2010;95:134-44 2. Berni Canani R et al. J Allergy Clin Immunol. 2012;129:580-582 3. Morale et al Early Hum Develop. 2005;81:197-203 4. Drover J et al. Child Dev 2009;80:1376-1384 5. Burks W et al. J Pediatr 2008;153(2):266-271 6. Braamskamp MJ et al. Eur J Pediatr. 2010;169:1179-1185 7. Vanderhoof JA et al Clin Pediatr. 2003;42:483-495 8. DeVizia B et al. J Pediatr. 1975;86:50-55 9. Lifschitz CH et al. J Pediatr. 1991;118:526-530 10. Department of Health. Report on Health and Social Subjects No. 41 Dietary Reference Values for Food Energy and Nutrients for the United Kingdom, published by HMSO in 1991.

RNI (Reference Nutrient Intake) an amount of the nutrient that is enough, or more than enough, for virtually all people in a group.

EAR (Estimated Average Requirement) of a group of people. About half will usually need more than the EAR, and half less.

^{*}This study was conducted with Nutramigen AA without MCT oil.

A solution for all your CMA needs



Milk-free recipes and parent leaflets are available on request.

Find out more at www.nutramigen.co.uk/hcp
Mead Johnson Careline: 01895 230575



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IMPORTANT NOTICE: Breastfeeding is best for babies. The decision to discontinue breastfeeding may be difficult to reverse and the introduction of partial bottle-feeding may reduce breast milk supply. The financial benefits of breastfeeding should be considered before bottle-feeding is initiated. Failure to follow preparation instructions carefully may be harmful to a baby's health. Parents should always be advised by an independent healthcare professional regarding infant feeding. Products of Mead Johnson must be used under medical supervision. This material is for healthcare professionals only.

EU15.552

NUT/FILOFAXUK/6-15



Coming soon LGG*
Nutramigen 1

Nutrient	Per 100g	Per 100ml
ENERGY, kJ / kcal	2100 / 500	280 / 68
PROTEIN (Equivalent), g	14	1.9
CARBOHYDRATES, g	55	7.5
Glucose Polymers, g	45	6.1
Modified Corn Starch, g	8.1	1.09
FAT (Vegetable Oil), g	25	3.4
Saturates, g	10.7	1.46
Linoleic acid, g	4.5	0.61
α-Linolenic acid, mg	340	46
Arachidonic acid (ARA), mg	170	23
Docosahexaenoic acid (DHA), mg	85	11.6
VITAMINS		
Vitamin A, mcg RE	450	60
Vitamin D, mcg	7.5	1.0
Vitamin E, mg α-TE	6.7	0.91
Vitamin C, mg	105	14.3
Vitamin B ₁ (Thiamin), mg	0.4	0.054
Vitamin B ₂ (Riboflavin), mg	0.45	0.061
Niacin, mg NE	5.0	0.68
Vitamin B ₆ (Pyridoxine), mg	0.3	0.041
Folic Acid, mcg	80	10.9
Vitamin B ₁₂ (Cyanocobalamin), mcg	1.5	0.2
Biotin, mcg	15	2.0
Pantothenic Acid, mg	2.5	0.34
Vitamin K, mcg	65	8.8
Choline, mg	120	16.3
Inositol, mg	85	11.6
MINERALS		
Calcium, mg [mmol]	565 [14.1]	77 [1.91]
Phosphorus (PO ₄), mg [mmol]	390 [12.6]	53 [1.7]
Iron, mg	9.0	1.22
Magnesium, mg [mmol]	50 [2.1]	6.8 [0.28]
Zinc, mg	3.5	0.48
Iodine, mcg	105	14.3
Sodium, mg [mmol]	240 [10.2]	32 [1.38]
Potassium, mg [mmol]	610 [15.6]	83 [2.1]
Chloride, mg [mmol]	480 [13.5]	65 [1.83]
Manganese, mg	0.3	0.041
Copper, mg	0.38	0.051
Selenium, mcg	11	1.5
Chromium, mcg	11	1.5
Molybdenum, mcg	28	3.8
MISCELLANEOUS		
Taurine, mg	30	4.1
L-Carnitine, mg	12.5	1.7
Osmolality, mOsm/kgH ₂ O	290	
Osmolarity, mOsm/Litre	255	
RSL, mOsm/Litre	179	

Coming soon LGG*
Nutramigen 2

Nutrient	Per 100g	Per 100ml
ENERGY, kJ / kcal	2000 / 480	280 / 68
PROTEIN (Equivalent), g	12	1.69
CARBOHYDRATES, g	62	8.8
Glucose Polymers, g	41	5.9
Modified Corn Starch, g	6.3	0.89
Fructose, g	12	1.7
FAT (Vegetable Oil), g	20	2.8
Saturates, g	8.3	1.17
Linoleic acid, g	3.4	0.48
α-Linolenic acid, mg	290	41
Arachidonic acid (ARA), mg	163	23
Docosahexaenoic acid (DHA), mg	82	11.5
VITAMINS		
Vitamin A, mcg RE	460	65
Vitamin D, mcg	7.5	1.05
Vitamin E, mg α-TE	5.5	0.77
Vitamin C, mg	75	10.6
Vitamin B ₁ (Thiamin), mg	0.53	0.074
Vitamin B ₂ (Riboflavin), mg	0.86	0.122
Niacin, mg NE	7.4	1.04
Vitamin B ₆ (Pyridoxine), mg	0.74	0.104
Folic Acid, mcg	70	9.8
Vitamin B ₁₂ (Cyanocobalamin), mcg	1.1	0.156
Biotin, mcg	10.6	1.49
Pantothenic Acid, mg	3.2	0.45
Vitamin K, mcg	62	8.8
Choline, mg	115	16.2
Inositol, mg	82	11.5
MINERALS		
Calcium, mg [mmol]	620 [15.5]	88 [2.2]
Phosphorus (PO ₄), mg [mmol]	360 [11.6]	50 [1.61]
Iron, mg	8.0	1.13
Magnesium, mg [mmol]	48 [1.98]	6.8 [0.28]
Zinc, mg	5.3	0.74
Sodium, mg [mmol]	149 [6.5]	21 [0.91]
Potassium, mg [mmol]	590 [15.1]	83 [2.1]
Chloride, mg [mmol]	340 [9.6]	47 [1.32]
Manganese, mg	0.14	0.02
Copper, mg	0.36	0.051
Iodine, mcg	84	11.9
Selenium, mcg	12	1.69
Chromium, mcg	21	3
Molybdenum, mcg	26	3.7
MISCELLANEOUS		
Taurine, mg	29	4.1
L-Carnitine, mg	10.6	1.49
Osmolality, mOsm/kgH ₂ O	420	
Osmolarity, mOsm/Litre	380	
RSL, mOsm/Litre	160	

Nutramigen PURAMINO

Nutrient	Per 100g	Per 100ml
ENERGY, kJ / kcal	2100 / 500	290 / 68
PROTEIN (Equivalent), g	13.9	1.89
CARBOHYDRATES, g	53	7.2
Glucose Polymers, g	47	6.4
Modified Tapioca Starch, g	2.7	0.37
FAT (Vegetable Oil), g	26	3.6
Saturates, g	10	1.36
MCT, g	8.8	1.2
Linoleic acid, g	4.3	0.58
α-Linolenic acid, mg	400	54
Arachidonic acid (ARA), mg	169	23
Docosahexaenoic acid (DHA), mg	85	11.5
VITAMINS		
Vitamin A, mcg RE	450	61
Vitamin D, mcg	6.3	0.85
Vitamin E, mg α-TE	6.7	0.91
Vitamin C, mg	60	8.1
Vitamin B ₁ (Thiamin), mg	0.4	0.054
Vitamin B ₂ (Riboflavin), mg	0.45	0.061
Niacin, mg NE	5.0	0.68
Vitamin B ₆ (Pyridoxine), mg	0.3	0.041
Folic Acid, mcg	80	10.8
Vitamin B ₁₂ (Cyanocobalamin), mcg	1.49	0.2
Biotin, mcg	14.9	2.0
Pantothenic Acid, mg	2.5	0.34
Vitamin K, mcg	45	6.1
Choline, mg	119	16.2
Inositol, mg	85	11.5
MINERALS		
Calcium, mg [mmol]	470 [11.7]	64 [1.6]
Phosphorus (PO ₄), mg [mmol]	260 [8.4]	35 [1.13]
Iron, mg	9.0	1.22
Magnesium, mg [mmol]	55 [2.3]	7.4 [0.3]
Zinc, mg	5.0	0.68
Sodium, mg [mmol]	230 [10]	32 [1.39]
Potassium, mg [mmol]	550 [14.1]	74 [1.89]
Chloride, mg [mmol]	430 [12.1]	58 [1.63]
Manganese, mg	0.12	0.017
Copper, mg	0.37	0.051
Iodine, mcg	75	10.1
Selenium, mcg	13.9	1.89
MISCELLANEOUS		
Taurine, mg	30	4.1
L-Carnitine, mg	9.9	1.35
Osmolality, mOsm/kgH ₂ O	350	
Osmolarity, mOsm/Litre	310	
RSL, mOsm/Litre	168	

Pregestimil

Nutrient	Per 100g	Per 100ml
ENERGY, kJ / kcal	2100 / 500	280 / 68
PROTEIN (Equivalent), g	14	1.89
CARBOHYDRATES, g	51	6.9
Glucose Polymers, g	42	5.7
Modified Corn Starch, g	7.2	0.97
FAT (Vegetable Oil), g	28	3.8
Saturates, g	16.8	2.3
MCT, g	15.2	2.1
Linoleic acid, g	5.6	0.76
α-Linolenic acid, mg	700	95
Arachidonic acid (ARA), mg	170	23
Docosahexaenoic acid (DHA), mg	85	11.5
VITAMINS		
Vitamin A, mcg RE	570	77
Vitamin D, mcg	9.3	1.25
Vitamin E, mg α-TE	13.4	1.81
Vitamin C, mg	96	13
Vitamin B ₁ (Thiamin), mg	0.4	0.054
Vitamin B ₂ (Riboflavin), mg	0.45	0.061
Niacin, mg NE	5.0	0.68
Vitamin B ₆ (Pyridoxine), mg	0.3	0.041
Folic Acid, mcg	80	10.8
Vitamin B ₁₂ (Cyanocobalamin), mcg	1.5	0.2
Biotin, mcg	15	2.0
Pantothenic Acid, mg	2.5	0.34
Vitamin K, mcg	60	8.1
Choline, mg	121	16
Inositol, mg	85	11.5
MINERALS		
Calcium, mg [mmol]	580 [14.3]	78 [1.94]
Phosphorus (PO ₄), mg [mmol]	380 [12.1]	51 [1.64]
Iron, mg	9.0	1.22
Magnesium, mg [mmol]	57 [2.3]	7.5 [0.31]
Zinc, mg	5.0	0.68
Iodine, mcg	105	14.2
Sodium, mg [mmol]	220 [9.3]	29 [1.26]
Potassium, mg [mmol]	550 [14.1]	74 [1.9]
Chloride, mg [mmol]	430 [12.1]	58 [1.64]
Manganese, mg	0.3	0.041
Copper, mg	0.38	0.051
Selenium, mcg	11	1.49
Chromium, mcg	11	1.49
Molybdenum, mcg	28	3.8
MISCELLANEOUS		
Taurine, mg	30	4.1
L-Carnitine, mg	12.5	1.69
Osmolality, mOsm/kgH ₂ O	280	
Osmolarity, mOsm/Litre	251	
RSL, mOsm/Litre	172	

Enfamil A.R.

Nutrient	Per 100g	Per 100ml
ENERGY, kJ / kcal	2100 / 510	290 / 69
PROTEIN (Equivalent), g	12.8	1.72
CARBOHYDRATES, g	56	7.6
Lactose, g	31	4.2
Glucose Polymers, g	0.56	0.08
Rice Starch, g	16.3	2.2
FAT (Vegetable Oil), g	26	3.5
Saturates, g	10	1.36
Linoleic acid, g	4.4	0.59
α-Linolenic acid, mg	370	50
Arachidonic acid, mg	173	23
Docosahexaenoic acid, mg	87	11.7
VITAMINS		
Vitamin A, mcg RE	460	62
Vitamin D, mcg	7.8	1.03
Vitamin E, mg α-TE	6.8	0.92
Vitamin C, mg	87	11.7
Vitamin B ₁ (Thiamin), mg	0.41	0.055
Vitamin B ₂ (Riboflavin), mg	0.92	0.124
Niacin, mg NE	5.1	0.69
Vitamin B ₆ (Pyridoxine), mg	0.31	0.041
Folic Acid, mcg	82	11
Vitamin B ₁₂ (Cyanocobalamin), mcg	1.53	0.21
Biotin, mcg	15.3	2.1
Pantothenic Acid, mg	2.6	0.34
Vitamin K, mcg	41	5.5
Choline, mg	122	16.5
Inositol, mg	31	4.1
MINERALS		
Calcium, mg [mmol]	590 [14.6]	79 [2.0]
Phosphorus (PO ₄), mg [mmol]	330 [10.5]	44 [1.42]
Iron, mg	5.6	0.76
Magnesium, mg [mmol]	41 [1.68]	5.5 [0.23]
Zinc, mg	5.1	0.69
Iodine, mcg	87	11.7
Sodium, mg [mmol]	168 [8.2]	23 [1.11]
Potassium, mg [mmol]	560 [14.3]	76 [1.94]
Chloride, mg [mmol]	410 [11.5]	55 [1.55]
Manganese, mg	0.078	0.011
Copper, mg	0.33	0.045
Selenium, mcg	14.3	1.93
MISCELLANEOUS		
Taurine, mg	31	4.1
L-Carnitine, mg	12.2	1.65
Nucleotides, mg	20	2.8
Osmolality, mOsm/kgH ₂ O	240	
Osmolarity, mOsm/Litre	220	
RSL, mOsm/Litre	158	

Daily Fluid Requirements

Age	Approx. Weight (kg)	Fluid (ml/kg)
0-3 months	5.1	150
4-6 months	7.2	130
7-9 months	8.9	120
10-12 months	9.6	110
1-3 years	12.9	95

Conversion Factors

Imperial to Metric		
To convert:	Multiply by:	Temperature
Feet to Metres	0.3048	°F °C
Inches to Centimetres	2.5400	32 0
Pints to Litres	0.5683	41 5
Ounces to Grams	28.350	50 10
Pounds to kgs	0.4536	59 15
		68 20
		77 25
Metric to Imperial		
To convert:	Multiply by:	86 30
Metres to Feet	3.2810	95 35
Biotin, mcg	0.3937	104 40
Centimetres to Inches	0.3937	140 60
Litres to Pints	1.7598	176 80
Grams to Ounces	0.0352	212 100
kgs to Pounds	2.2046	

International units (IU) = weight x conversion factor
 conversion factor Vitamin A: 3.33; conversion factor Vitamin D: 40
 6 mcg β-carotene = mcg RE (Retinol equivalent)
 IU vitamin E / 1.49 = mg α - TE (Tocopherol equivalent)
 60 mg of tryptophan = 1 mg of niacin = 1 mg of niacin equivalents

Minerals: mmol to mg & mcmol to mcg conversions

1 mmol = "X" mg		1 mcmol = "X" mcg	
Sodium	23	Chromium	52
Potassium	39.1	Molybdenum	96
Calcium	40	Manganese	55
Magnesium	24.3	Selenium	79
Phosphorus	31	Iodine	126.9
Chloride	35.5	Copper	63.5

* *Lactobacillus rhamnosus* GG is a licensed Trademark of Valio Ltd, Finland.
 Nutritional content of Nutramigen LIPIL 1 & 2 & Nutramigen 1 & 2 with LGG is the same