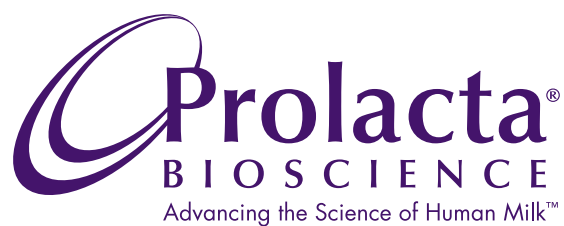




Nutrition Information

100% Human Milk–Based Neonatal Nutritional
Products From Prolacta Bioscience



What is an exclusive human milk diet?

EHMD

An EHMD is achieved when 100% of protein, fat, and carbohydrate are derived from human milk. This diet includes a human milk–based human milk fortifier.

An EHMD for very low birth weight babies supports adequate growth,¹ can contribute to increased survival rates,² and can decrease costly complications associated with the intake of cow milk–based products.^{3,4,*}

*For babies weighing ≤1250 g. Outcome measures were statistically based on mean weight data.

All Neonatal Nutritional Products From Prolacta Are 100% Human Milk–Based



Prolacta is committed to helping healthcare providers meet the nutritional needs of extremely premature infants in the neonatal intensive care unit (NICU). In an effort to support clinical decision-making for an exclusive human milk diet (EHMD), we are providing detailed information on the nutrients in our full line of 100% human milk–based neonatal nutritional products.

When mixed with mother’s own milk (MOM) or donor human milk, Prolacta’s human milk–based human milk fortifiers provide nutrition that falls within the recommendations established by the World Health Organization, European Society of Paediatric Gastroenterology, Hepatology and Nutrition Committee on Nutrition (ESPGHAN), and the American Academy of Pediatrics (AAP).^{1,3} The products contain protein, fat, and carbohydrate derived from pasteurised donated human milk, with essential minerals added.[‡]

Humavant® CR human milk caloric fortifier (human, pasteurised) is pasteurised human milk cream with no minerals added.

Humavant® RTF fortified human milk is standardised to ensure predictable delivery of nutrients. The product contains protein, fat, and carbohydrate derived from pasteurised donated human milk, with essential minerals added.[‡]

Although we can provide the nutritional information for our products, we recognise that there is no single source of information that establishes nutritional values for human milk. Thus, to help with the

preparation of a feeding solution with Prolacta’s fortifiers, we have provided these nutritional references for preterm milk and term milk:

- Preterm milk values are adapted from *Nutritional Care of Preterm Infants: Scientific Basis and Practical Guidelines*.⁴
- Term milk values are adapted from the AAP handbook entitled *Pediatric Nutrition*.¹

We do not add vitamins, iron, manganese, iodine, or selenium to any of our products. Vitamins in human milk vary naturally, and the amounts present in Prolacta’s products are further affected by manufacturing processes. The amounts of fat, protein, carbohydrate, and minerals (except for iodine and selenium) are based on median values derived from multiple lots, while the concentrations of vitamins,[†] iodine, and selenium are based on values derived from an individual lot or a composite of multiple lots.

An EHMD requires nutritional supplementation. Any required additional vitamins and iron must be administered separately from Prolacta’s products.

The values presented in this brochure are for reference only. Regular nutrition monitoring is required, and appropriate medical judgment should always be exercised when using feeding guidelines. For more information about Prolacta’s products and providing an EHMD, please contact your Prolacta representative.

Optimal Nutrition Products

Humavant products are food for special medical purposes for the dietary management of premature/low birth weight infants

					
Humavant®+6 (15 ml) Human Milk Fortifier (Human, Pasteurised)	Humavant®+6 (30 ml) Human Milk Fortifier (Human, Pasteurised)	Humavant®+8 (40 ml) Human Milk Fortifier (Human, Pasteurised)	Humavant® RTF 26 (100 ml) Fortified Human Milk	Humavant® RTF 28 (100 ml) Fortified Human Milk	Humavant® CR (10 ml) Human Milk Caloric Fortifier (Human, Pasteurised)

Additional Products for Feeding Flexibility

			
Humavant®+4 (10 ml) Human Milk Fortifier (Human, Pasteurised)	Humavant®+4 (20 ml) Human Milk Fortifier (Human, Pasteurised)	Humavant®+10 (50 ml) Human Milk Fortifier (Human, Pasteurised)	Humavant® RTF 24 (100 ml) Fortified Human Milk

[‡]Sodium, potassium, chloride, calcium, phosphorus, magnesium, copper, and zinc.

[†]Vitamin A, vitamin D, vitamin E, vitamin K, biotin, thiamine, riboflavin, vitamin B6, vitamin B12, niacin, folate, pantothenic acid, and vitamin C.

References: **1** American Academy of Pediatrics Committee on Nutrition. Appendix A. In: Kleinman RE, Greer FR, eds. *Pediatric Nutrition*. 8th ed. Itasca, IL: American Academy of Pediatrics; 2019:1505-1508. **2** World Health Organization. Guidelines on optimal feeding of low birth-weight infants in low- and middle-income countries. Geneva;2011. Accessed January 21, 2022. <https://www.ncbi.nlm.nih.gov/books/NBK298973/> **3** Agostoni C, Buonocore G, Carnielli VP, et al. Enteral nutrient supply for preterm infants: commentary from the European Society of Paediatric Gastroenterology, Hepatology and Nutrition Committee on Nutrition. *J Pediatr Gastroenterol Nutr.* 2010;50(1):85-91. doi:10.1097/MPG.0b013e3181adade0 **4** Koletzko B, Wiczorek S, Cheah FC, Domellof M, van Goudoever JB, Poindexter BB, Vain N. Recommended Nutrient Intake Levels for Preterm Infants. *World Rev Nutr Diet.* 2021;122:191-197. doi:10.1159/000514772

Humavant[®]+4 (20 ml) Nutrition Information

When Mixed With Preterm Human Milk



The nutrient values below are provided for general reference only. They are based on median values derived from multiple lots or values derived from a composite of multiple lots for the fortifier and the published reference regarding preterm human milk.[§] The values are standardised.

Humavant+4 fortifier is available in a lower-volume 10 ml solution. When mixed, the lower volume of fortifier is half the volume but provides the same amount of nutrients per 100 ml of fortified milk.



Nutrient	Unit	Preterm Human Milk per 100 ml [†]	Preterm Human Milk per 80 ml [†]	Humavant+4 per 20 ml	Preterm Human Milk Fortified With Humavant+4 per 100 ml	Preterm Human Milk Fortified With Humavant+4 per 100 kcal
Volume	ml	100.0	80.0	20.0	100.0	120.5
Calories	kcal	67.0	53.6	29.4	83.0	100.0
Kilojoules	kJ	280.1	224.1	122.9	347.0	418.1
Protein	g	1.6	1.3	1.2	2.5	3.0
Fat	g	3.5	2.8	1.9	4.7	5.7
Carbohydrate	g	7.3	5.8	1.9	7.7	9.3
Vitamins						
Vitamin A, Retinol	µg	14.4	11.5	11.5	23.0	27.7
Vitamin A, Retinol	IU	48.0	38.4	38.3	76.7	92.4
Vitamin D	µg	0.2	0.2	0.0	0.2	0.2
Vitamin D	IU	8.0	6.4	1.6	8.0	9.6
Vitamin E	mg	0.3	0.2	0.1	0.3	0.4
Vitamin E	IU	0.4	0.3	0.1	0.4	0.5
Vitamin K ^{2,3}	µg	0.3	0.2	**	0.2	0.2
Vitamin C	mg	4.4	3.5	**	3.5	4.2
Vitamin B1, Thiamine	µg	8.9	7.1	1.2	8.3	10.0
Vitamin B2, Riboflavin	µg	27.0	21.6	3.8	25.4	30.6
Vitamin B3, Niacin	mg	0.2	0.2	0.0	0.2	0.2
Vitamin B5, Pantothenic Acid	mg	0.2	0.2	0.0	0.2	0.2
Vitamin B6, Pyridoxine	µg	6.2	5.0	**	5.0	6.0
Vitamin B7, Biotin	µg	0.5	0.4	**	0.4	0.5
Vitamin B9, Folate	µg	3.1	2.5	2.5	5.0	6.0
Vitamin B12, Cobalamin	µg	0.0	0.0	**	0.0	0.0
Minerals						
Sodium	mg	28.0	22.4	46.2	68.6	82.7
Potassium	mg	50.0	40.0	52.6	92.6	111.6
Chloride	mg	58.0	46.4	59.6	106.0	127.7
Calcium	mg	25.0	20.0	103.8	123.8	149.2
Phosphorus	mg	14.5	11.6	55.1	66.7	80.4
Magnesium	mg	3.3	2.6	5.9	8.5	10.2
Iron	mg	0.1	0.1	0.0	0.1	0.1
Zinc	mg	0.4	0.3	1.2	1.5	1.8
Copper	µg	38.0	30.4	87.3	117.7	141.8
Iodine	µg	17.8	14.2	5.0	19.2	23.1
Selenium	µg	2.4	1.9	2.1	4.0	4.8
Manganese	µg	0.4	0.3	5.6	5.9	7.1
Humavant+4 fortifier mixed with donor milk[†]: 366 mOsm/kg						

§Nutrient contributions from Proclata's fortifier are based on median values derived from multiple lots (macronutrients and minerals, except iodine and selenium) or values derived from a composite of multiple lots (vitamins, iodine, and selenium).

**Not a significant source of this nutrient.

†Humavant[®] HM human milk (human, pasteurised)

1 Koletzko B, Wiecezorek S, Cheah FC, Domellof M, van Goudoever JB, Poindexter BB, Vain N. Recommended Nutrient Intake Levels for Preterm Infants. *World Rev Nutr Diet.* 2021;122:191-197. doi:10.1159/000514772 **2** Tsang RC, Uauy R, Koletzko B, Zlotkin SH, eds. *Nutrition of the preterm infant: scientific basis and practical guidelines.* 2nd ed. Cincinnati, OH: Digital Educational Publishing, Inc;2005:144. **3** Bolisetty S, Gupta JM, Graham GG, Salonikas C, Naidoo D. Vitamin K in preterm breastmilk with maternal supplementation. *Acta Paediatr.* 1998;87(9):960-962. doi:10.1080/080352598750031626

Humavant®+4 (20 ml) Nutrition Information

When Mixed With Term Human Milk



The nutrient values below are provided for general reference only. They are based on median values derived from multiple lots or values derived from a composite of multiple lots for the fortifier and the published reference regarding term human milk.[§] The values are standardised.

Humavant+4 fortifier is available in a lower-volume 10 ml solution. When mixed, the lower volume of fortifier is half the volume but provides the same amount of nutrients per 100 ml of fortified milk.



Nutrient	Unit	Term Human Milk per 100 ml [†]	Term Human Milk per 80 ml [†]	Humavant+4 per 20 ml	Term Human Milk Fortified With Humavant+4 per 100 ml	Term Human Milk Fortified With Humavant+4 per 100 kcal
Volume	ml	100.0	80.0	20.0	100.0	119.9
Calories	kcal	67.5	54.0	29.4	83.4	100.0
Kilojoules	kJ	282.2	225.8	122.9	348.7	418.1
Protein	g	0.9	0.7	1.2	1.9	2.3
Fat	g	3.5	2.8	1.9	4.7	5.6
Carbohydrate	g	8.2	6.6	1.9	8.5	10.2
Vitamins						
Vitamin A, Retinol	µg	45.0	36.0	11.5	47.5	57.0
Vitamin A, Retinol	IU	149.9	119.9	38.3	158.2	189.7
Vitamin D	µg	0.0	0.0	0.0	0.0	0.0
Vitamin D	IU	0.0	0.0	1.6	1.6	1.9
Vitamin E	mg	0.6	0.5	0.1	0.6	0.7
Vitamin E	IU	0.9	0.7	0.1	0.8	1.0
Vitamin K	µg	0.3	0.2	**	0.2	0.2
Vitamin C	mg	10.0	8.0	**	8.0	9.6
Vitamin B1, Thiamine	µg	20.0	16.0	1.2	17.2	20.6
Vitamin B2, Riboflavin	µg	50.0	40.0	3.8	43.8	52.5
Vitamin B3, Niacin	mg	0.4	0.3	0.0	0.3	0.4
Vitamin B5, Pantothenic Acid	mg	0.2	0.2	0.0	0.2	0.2
Vitamin B6, Pyridoxine	µg	20.0	16.0	**	16.0	19.2
Vitamin B7, Biotin	µg	0.7	0.6	**	0.6	0.7
Vitamin B9, Folate	µg	11.0	8.8	2.5	11.3	13.5
Vitamin B12, Cobalamin	µg	0.1	0.1	**	0.1	0.1
Minerals						
Sodium	mg	18.5	14.8	46.2	61.0	73.1
Potassium	mg	47.5	38.0	52.6	90.6	108.6
Chloride	mg	42.5	34.0	59.6	93.6	112.2
Calcium	mg	22.5	18.0	103.8	121.8	146.0
Phosphorus	mg	13.0	10.4	55.1	65.5	78.5
Magnesium	mg	3.3	2.6	5.9	8.5	10.2
Iron	mg	0.1	0.1	0.0	0.1	0.1
Zinc	mg	0.2	0.2	1.2	1.4	1.7
Copper	µg	30.0	24.0	87.3	111.3	133.4
Iodine	µg	15.0	12.0	5.0	17.0	20.4
Selenium	µg	2.0	1.6	2.1	3.7	4.4
Manganese	µg	0.3	0.2	5.6	5.8	7.0
Humavant+4 fortifier mixed with donor milk[†]: 366 mOsm/kg						

§Nutrient contributions from ProLacta's fortifier are based on median values derived from multiple lots (macronutrients and minerals, except iodine and selenium) or values derived from a composite of multiple lots (vitamins, iodine, and selenium). Nutrient contributions from term human milk are average or representative values drawn from Reference 1.

**Not a significant source of this nutrient.

†Humavant® HM human milk (human, pasteurised)

1 American Academy of Pediatrics Committee on Nutrition. Appendix A. In: Kleinman RE, Greer FR, eds. *Pediatric Nutrition*. 8th ed. Itasca, IL: American Academy of Pediatrics; 2019:1505-1508.

Humavant®+6 (30 ml) Nutrition Information

When Mixed With Preterm Human Milk



The nutrient values below are provided for general reference only. They are based on median values derived from multiple lots or values derived from a composite of multiple lots for the fortifier and the published reference regarding preterm human milk.[§] The values are standardised.

Humavant+6 fortifier is available in a lower-volume 15 ml solution. When mixed, the lower volume of fortifier is half the volume but provides the same amount of nutrients per 100 ml of fortified milk.



Nutrient	Unit	Preterm Human Milk per 100 ml [†]	Preterm Human Milk per 70 ml [†]	Humavant+6 per 30 ml	Preterm Human Milk Fortified With Humavant+6 per 100 ml	Preterm Human Milk Fortified With Humavant+6 per 100 kcal
Volume	ml	100.0	70.0	30.0	100.0	110.4
Calories	kcal	67.0	46.9	43.7	90.6	100.0
Kilojoules	kJ	280.1	196.1	182.7	378.8	418.2
Protein	g	1.6	1.1	1.8	2.9	3.2
Fat	g	3.5	2.5	2.9	5.4	6.0
Carbohydrate	g	7.3	5.1	2.7	7.8	8.6
Vitamins						
Vitamin A, Retinol	µg	14.4	10.1	13.9	24.0	26.5
Vitamin A, Retinol	IU	48.0	33.6	46.1	79.7	88.0
Vitamin D	µg	0.2	0.1	0.1	0.2	0.2
Vitamin D	IU	8.0	5.6	2.4	8.0	8.8
Vitamin E	mg	0.3	0.2	0.1	0.3	0.3
Vitamin E	IU	0.4	0.3	0.2	0.5	0.6
Vitamin K ^{2,3}	µg	0.3	0.2	**	0.2	0.2
Vitamin C	mg	4.4	3.1	**	3.1	3.4
Vitamin B1, Thiamine	µg	8.9	6.2	1.8	8.0	8.8
Vitamin B2, Riboflavin	µg	27.0	18.9	5.8	24.7	27.3
Vitamin B3, Niacin	mg	0.2	0.1	0.0	0.1	0.1
Vitamin B5, Pantothenic Acid	mg	0.2	0.1	0.1	0.2	0.2
Vitamin B6, Pyridoxine	µg	6.2	4.3	**	4.3	4.7
Vitamin B7, Biotin	µg	0.5	0.4	**	0.4	0.4
Vitamin B9, Folate	µg	3.1	2.2	3.9	6.1	6.7
Vitamin B12, Cobalamin	µg	0.0	0.0	**	0.0	0.0
Minerals						
Sodium	mg	28.0	19.6	48.0	67.6	74.6
Potassium	mg	50.0	35.0	57.6	92.6	102.2
Chloride	mg	58.0	40.6	63.9	104.5	115.4
Calcium	mg	25.0	17.5	107.5	125.0	138.0
Phosphorus	mg	14.5	10.2	57.6	67.8	74.9
Magnesium	mg	3.3	2.3	6.7	9.0	9.9
Iron	mg	0.1	0.1	0.0	0.1	0.1
Zinc	mg	0.4	0.3	1.2	1.5	1.7
Copper	µg	38.0	26.6	89.0	115.6	127.6
Iodine	µg	17.8	12.5	7.0	19.5	21.5
Selenium	µg	2.4	1.7	2.8	4.5	5.0
Manganese	µg	0.4	0.3	5.5	5.8	6.4
Humavant+6 fortifier mixed with donor milk [†] : 374 mOsm/kg						

§Nutrient contributions from ProLacta's fortifier are based on median values derived from multiple lots (macronutrients and minerals, except iodine and selenium) or values derived from a composite of multiple lots (vitamins, iodine, and selenium).

**Not a significant source of this nutrient.

†Humavant® HM human milk (human, pasteurised)

¹ Koletzko B, Wiecek S, Cheah FC, Domellof M, van Goudoever JB, Poindexter BB, Vain N. Recommended Nutrient Intake Levels for Preterm Infants. *World Rev Nutr Diet.* 2021;122:191-197. doi:10.1159/000514772 ² Tsang RC, Uauy R, Koletzko B, Zlotkin SH, eds. *Nutrition of the preterm infant: scientific basis and practical guidelines.* 2nd ed. Cincinnati, OH: Digital Educational Publishing, Inc;2005:144. ³ Bolisetty S, Gupta JM, Graham GG, Salonikas C, Naidoo D. Vitamin K in preterm breastmilk with maternal supplementation. *Acta Paediatr.* 1998;87(9):960-962. doi:10.1080/080352598750031626

Humavant®+6 (30 ml) Nutrition Information

When Mixed With Term Human Milk



The nutrient values below are provided for general reference only. They are based on median values derived from multiple lots or values derived from a composite of multiple lots for the fortifier and the published reference regarding term human milk.[§] The values are standardised.

Humavant+6 fortifier is available in a lower-volume 15 ml solution. When mixed, the lower volume of fortifier is half the volume but provides the same amount of nutrients per 100 ml of fortified milk.



Nutrient	Unit	Term Human Milk per 100 ml [†]	Term Human Milk per 70 ml [†]	Humavant+6 per 30 ml	Term Human Milk Fortified With Humavant+6 per 100 ml	Term Human Milk Fortified With Humavant+6 per 100 kcal
Volume	ml	100.0	70.0	30.0	100.0	109.9
Calories	kcal	67.5	47.3	43.7	91.0	100.0
Kilojoules	kJ	282.2	197.5	182.7	380.2	417.8
Protein	g	0.9	0.6	1.8	2.4	2.6
Fat	g	3.5	2.5	2.9	5.4	5.9
Carbohydrate	g	8.2	5.7	2.7	8.4	9.2
Vitamins						
Vitamin A, Retinol	µg	45.0	31.5	13.9	45.4	49.9
Vitamin A, Retinol	IU	149.9	104.9	46.1	151.0	165.9
Vitamin D	µg	0.0	0.0	0.1	0.1	0.1
Vitamin D	IU	0.0	0.0	2.4	2.4	2.6
Vitamin E	mg	0.6	0.4	0.1	0.5	0.5
Vitamin E	IU	0.9	0.6	0.2	0.8	0.9
Vitamin K	µg	0.3	0.2	**	0.2	0.2
Vitamin C	mg	10.0	7.0	**	7.0	7.7
Vitamin B1, Thiamine	µg	20.0	14.0	1.8	15.8	17.4
Vitamin B2, Riboflavin	µg	50.0	35.0	5.8	40.8	44.8
Vitamin B3, Niacin	mg	0.4	0.3	0.0	0.3	0.3
Vitamin B5, Pantothenic Acid	mg	0.2	0.1	0.1	0.2	0.2
Vitamin B6, Pyridoxine	µg	20.0	14.0	**	14.0	15.4
Vitamin B7, Biotin	µg	0.7	0.5	**	0.5	0.5
Vitamin B9, Folate	µg	11.0	7.7	3.9	11.6	12.7
Vitamin B12, Cobalamin	µg	0.1	0.1	**	0.1	0.1
Minerals						
Sodium	mg	18.5	13.0	48.0	61.0	67.0
Potassium	mg	47.5	33.3	57.6	90.9	99.9
Chloride	mg	42.5	29.8	63.9	93.7	103.0
Calcium	mg	22.5	15.8	107.5	123.3	135.5
Phosphorus	mg	13.0	9.1	57.6	66.7	73.3
Magnesium	mg	3.3	2.3	6.7	9.0	9.9
Iron	mg	0.1	0.1	0.0	0.1	0.1
Zinc	mg	0.2	0.1	1.2	1.3	1.4
Copper	µg	30.0	21.0	89.0	110.0	120.9
Iodine	µg	15.0	10.5	7.0	17.5	19.2
Selenium	µg	2.0	1.4	2.8	4.2	4.6
Manganese	µg	0.3	0.2	5.5	5.7	6.3
Humavant+6 fortifier mixed with donor milk [‡] : 374 mOsm/kg						

[§]Nutrient contributions from ProLacta's fortifier are based on median values derived from multiple lots (macronutrients and minerals, except iodine and selenium) or values derived from a composite of multiple lots (vitamins, iodine, and selenium). Nutrient contributions from term human milk are average or representative values drawn from Reference 1.

**Not a significant source of this nutrient.

[†]Humavant® HM human milk (human, pasteurised)

[‡] American Academy of Pediatrics Committee on Nutrition. Appendix A. In: Kleinman RE, Greer FR, eds. *Pediatric Nutrition*. 8th ed. Itasca, IL: American Academy of Pediatrics; 2019:1505-1508.

Humavant®+8 (40 ml) Nutrition Information

When Mixed With Preterm Human Milk



The nutrient values below are provided for general reference only. They are based on median values derived from multiple lots or values derived from a composite of multiple lots for the fortifier and the published reference regarding preterm human milk.[§] The values are standardised.

Nutrient	Unit	Preterm Human Milk per 100 ml [†]	Preterm Human Milk per 60 ml [†]	Humavant+8 per 40 ml	Preterm Human Milk Fortified With Humavant+8 per 100 ml	Preterm Human Milk Fortified With Humavant+8 per 100 kcal
Volume	ml	100.0	60.0	40.0	100.0	102.1
Calories	kcal	67.0	40.2	57.7	97.9	100.0
Kilojoules	kJ	280.1	168.1	241.3	409.4	418.1
Protein	g	1.6	1.0	2.4	3.4	3.5
Fat	g	3.5	2.1	3.8	5.9	6.0
Carbohydrate	g	7.3	4.4	3.4	7.8	8.0
Vitamins						
Vitamin A, Retinol	µg	14.4	8.6	21.3	29.9	30.5
Vitamin A, Retinol	IU	48.0	28.8	70.9	99.7	101.8
Vitamin D	µg	0.2	0.1	0.1	0.2	0.2
Vitamin D	IU	8.0	4.8	3.2	8.0	8.2
Vitamin E	mg	0.3	0.2	0.2	0.4	0.4
Vitamin E	IU	0.4	0.2	0.2	0.4	0.4
Vitamin K ^{2,3}	µg	0.3	0.2	**	0.2	0.2
Vitamin C	mg	4.4	2.6	**	2.6	2.7
Vitamin B1, Thiamine	µg	8.9	5.3	2.6	7.9	8.1
Vitamin B2, Riboflavin	µg	27.0	16.2	8.6	24.8	25.3
Vitamin B3, Niacin	mg	0.2	0.1	0.0	0.1	0.1
Vitamin B5, Pantothenic Acid	mg	0.2	0.1	0.1	0.2	0.2
Vitamin B6, Pyridoxine	µg	6.2	3.7	**	3.7	3.8
Vitamin B7, Biotin	µg	0.5	0.3	**	0.3	0.3
Vitamin B9, Folate	µg	3.1	1.9	5.2	7.1	7.3
Vitamin B12, Cobalamin	µg	0.0	0.0	**	0.0	0.0
Minerals						
Sodium	mg	28.0	16.8	54.1	70.9	72.4
Potassium	mg	50.0	30.0	62.2	92.2	94.2
Chloride	mg	58.0	34.8	70.5	105.3	107.5
Calcium	mg	25.0	15.0	110.3	125.3	128.0
Phosphorus	mg	14.5	8.7	59.1	67.8	69.2
Magnesium	mg	3.3	2.0	6.7	8.7	8.9
Iron	mg	0.1	0.1	0.0	0.1	0.1
Zinc	mg	0.4	0.2	1.3	1.5	1.5
Copper	µg	38.0	22.8	92.1	114.9	117.3
Iodine	µg	17.8	10.7	10.0	20.7	21.1
Selenium	µg	2.4	1.4	3.8	5.2	5.3
Manganese	µg	0.4	0.2	5.7	5.9	6.0
Humavant+8 fortifier mixed with donor milk[†]: 382 mOsm/kg						

§Nutrient contributions from ProLacta's fortifier are based on median values derived from multiple lots (macronutrients and minerals, except iodine and selenium) or values derived from a composite of multiple lots (vitamins, iodine, and selenium).

**Not a significant source of this nutrient.

†Humavant® HM human milk (human, pasteurised)

1 Koletzko B, Wiecek S, Cheah FC, Domellof M, van Goudoever JB, Poindexter BB, Vain N. Recommended Nutrient Intake Levels for Preterm Infants. *World Rev Nutr Diet.* 2021;122:191-197. doi:10.1159/000514772 **2** Tsang RC, Uauy R, Koletzko B, Zlotkin SH, eds. *Nutrition of the preterm infant: scientific basis and practical guidelines.* 2nd ed. Cincinnati, OH: Digital Educational Publishing, Inc;2005:144. **3** Bolisetty S, Gupta JM, Graham GG, Salonikas C, Naidoo D. Vitamin K in preterm breastmilk with maternal supplementation. *Acta Paediatr.* 1998;87(9):960-962. doi:10.1080/080352598750031626

Humavant®+8 (40 ml) Nutrition Information

When Mixed With Term Human Milk



The nutrient values below are provided for general reference only. They are based on median values derived from multiple lots or values derived from a composite of multiple lots for the fortifier and the published reference regarding term human milk.[§] The values are standardised.

Nutrient	Unit	Term Human Milk per 100 ml [†]	Term Human Milk per 60 ml [†]	Humavant+8 per 40 ml	Term Human Milk Fortified With Humavant+8 per 100 ml	Term Human Milk Fortified With Humavant+8 per 100 kcal
Volume	ml	100.0	60.0	40.0	100.0	101.8
Calories	kcal	67.5	40.5	57.7	98.2	100.0
Kilojoules	kJ	282.2	169.3	241.3	410.6	418.0
Protein	g	0.9	0.5	2.4	2.9	3.0
Fat	g	3.5	2.1	3.8	5.9	6.0
Carbohydrate	g	8.2	4.9	3.4	8.3	8.4
Vitamins						
Vitamin A, Retinol	µg	45.0	27.0	21.3	48.3	49.2
Vitamin A, Retinol	IU	149.9	89.9	70.9	160.8	163.7
Vitamin D	µg	0.0	0.0	0.1	0.1	0.1
Vitamin D	IU	0.0	0.0	3.2	3.2	3.3
Vitamin E	mg	0.6	0.4	0.2	0.6	0.6
Vitamin E	IU	0.9	0.5	0.2	0.7	0.7
Vitamin K	µg	0.3	0.2	**	0.2	0.2
Vitamin C	mg	10.0	6.0	**	6.0	6.1
Vitamin B1, Thiamine	µg	20.0	12.0	2.6	14.6	14.9
Vitamin B2, Riboflavin	µg	50.0	30.0	8.6	38.6	39.3
Vitamin B3, Niacin	mg	0.4	0.2	0.0	0.2	0.2
Vitamin B5, Pantothenic Acid	mg	0.2	0.1	0.1	0.2	0.2
Vitamin B6, Pyridoxine	µg	20.0	12.0	**	12.0	12.2
Vitamin B7, Biotin	µg	0.7	0.4	**	0.4	0.4
Vitamin B9, Folate	µg	11.0	6.6	5.2	11.8	12.0
Vitamin B12, Cobalamin	µg	0.1	0.1	**	0.1	0.1
Minerals						
Sodium	mg	18.5	11.1	54.1	65.2	66.4
Potassium	mg	47.5	28.5	62.2	90.7	92.3
Chloride	mg	42.5	25.5	70.5	96.0	97.7
Calcium	mg	22.5	13.5	110.3	123.8	126.0
Phosphorus	mg	13.0	7.8	59.1	66.9	68.1
Magnesium	mg	3.3	2.0	6.7	8.7	8.9
Iron	mg	0.1	0.1	0.0	0.1	0.1
Zinc	mg	0.2	0.1	1.3	1.4	1.4
Copper	µg	30.0	18.0	92.1	110.1	112.1
Iodine	µg	15.0	9.0	10.0	19.0	19.3
Selenium	µg	2.0	1.2	3.8	5.0	5.1
Manganese	µg	0.3	0.2	5.7	5.9	6.0
Humavant+8 fortifier mixed with donor milk [†] : 382 mOsm/kg						

§Nutrient contributions from Prolacta's fortifier are based on median values derived from multiple lots (macronutrients and minerals, except iodine and selenium) or values derived from a composite of multiple lots (vitamins, iodine, and selenium). Nutrient contributions from term human milk are average or representative values drawn from Reference 1.

**Not a significant source of this nutrient.

†Humavant® HM human milk (human, pasteurised)

1 American Academy of Pediatrics Committee on Nutrition. Appendix A. In: Kleinman RE, Greer FR, eds. *Pediatric Nutrition*. 8th ed. Itasca, IL: American Academy of Pediatrics; 2019:1505-1508.

Humavant®+10 (50 ml) Nutrition Information

When Mixed With Preterm Human Milk



The nutrient values below are provided for general reference only. They are based on median values derived from multiple lots or values derived from a composite of multiple lots for the fortifier and the published reference regarding preterm human milk.[§] The values are standardised.

Nutrient	Unit	Preterm Human Milk per 100 ml [†]	Preterm Human Milk per 50 ml [†]	Humavant+10 per 50 ml	Preterm Human Milk Fortified With Humavant+10 per 100 ml	Preterm Human Milk Fortified With Humavant+10 per 100 kcal
Volume	ml	100.0	50.0	50.0	100.0	95.2
Calories	kcal	67.0	33.5	71.5	105.0	100.0
Kilojoules	kJ	280.1	140.1	298.9	439.0	417.9
Protein	g	1.6	0.8	3.0	3.8	3.6
Fat	g	3.5	1.8	4.7	6.5	6.2
Carbohydrate	g	7.3	3.7	4.1	7.8	7.4
Vitamins						
Vitamin A, Retinol	µg	14.4	7.2	23.1	30.3	28.8
Vitamin A, Retinol	IU	48.0	24.0	76.9	100.9	96.1
Vitamin D	µg	0.2	0.1	0.1	0.2	0.2
Vitamin D	IU	8.0	4.0	4.0	8.0	7.6
Vitamin E	mg	0.3	0.2	0.2	0.4	0.4
Vitamin E	IU	0.4	0.2	0.3	0.5	0.5
Vitamin K ^{2,3}	µg	0.3	0.2	**	0.2	0.2
Vitamin C	mg	4.4	2.2	**	2.2	2.1
Vitamin B1, Thiamine	µg	8.9	4.5	3.3	7.8	7.4
Vitamin B2, Riboflavin	µg	27.0	13.5	9.7	23.2	22.1
Vitamin B3, Niacin	mg	0.2	0.1	0.1	0.2	0.2
Vitamin B5, Pantothenic Acid	mg	0.2	0.1	0.1	0.2	0.2
Vitamin B6, Pyridoxine	µg	6.2	3.1	**	3.1	3.0
Vitamin B7, Biotin	µg	0.5	0.3	**	0.3	0.3
Vitamin B9, Folate	µg	3.1	1.6	5.8	7.4	7.0
Vitamin B12, Cobalamin	µg	0.0	0.0	**	0.0	0.0
Minerals						
Sodium	mg	28.0	14.0	67.3	81.3	77.4
Potassium	mg	50.0	25.0	89.4	114.4	108.9
Chloride	mg	58.0	29.0	96.3	125.3	119.3
Calcium	mg	25.0	12.5	142.0	154.5	147.1
Phosphorus	mg	14.5	7.3	75.7	83.0	79.0
Magnesium	mg	3.3	1.7	8.7	10.4	9.9
Iron	mg	0.1	0.1	0.1	0.2	0.2
Zinc	mg	0.4	0.2	1.6	1.8	1.7
Copper	µg	38.0	19.0	126.2	145.2	138.2
Iodine	µg	17.8	8.9	11.0	19.9	18.9
Selenium	µg	2.4	1.2	4.7	5.9	5.6
Manganese	µg	0.4	0.2	5.3	5.5	5.2
Humavant+10 fortifier mixed with donor milk [†] : 403 mOsm/kg						

§Nutrient contributions from ProLacta's fortifier are based on median values derived from multiple lots (macronutrients and minerals, except iodine and selenium) or values derived from a composite of multiple lots (vitamins, iodine, and selenium).

**Not a significant source of this nutrient.

†Humavant® HM human milk (human, pasteurised)

¹ Koletzko B, Wiecek S, Cheah FC, Domellof M, van Goudoever JB, Poindexter BB, Vain N. Recommended Nutrient Intake Levels for Preterm Infants. *World Rev Nutr Diet.* 2021;122:191-197. doi:10.1159/000514772 ² Tsang RC, Uauy R, Koletzko B, Zlotkin SH, eds. *Nutrition of the preterm infant: scientific basis and practical guidelines.* 2nd ed. Cincinnati, OH: Digital Educational Publishing, Inc;2005:144. ³ Bolisetty S, Gupta JM, Graham GG, Salonikas C, Naidoo D. Vitamin K in preterm breastmilk with maternal supplementation. *Acta Paediatr.* 1998;87(9):960-962. doi:10.1080/080352598750031626

Humavant®+10 (50 ml) Nutrition Information

When Mixed With Term Human Milk



The nutrient values below are provided for general reference only. They are based on median values derived from multiple lots or values derived from a composite of multiple lots for the fortifier and the published reference regarding term human milk.[§] The values are standardised.

Nutrient	Unit	Term Human Milk per 100 ml [†]	Term Human Milk per 50 ml [†]	Humavant+10 per 50 ml	Term Human Milk Fortified With Humavant+10 per 100 ml	Term Human Milk Fortified With Humavant+10 per 100 kcal
Volume	ml	100.0	50.0	50.0	100.0	95.0
Calories	kcal	67.5	33.8	71.5	105.3	100.0
Kilojoules	kJ	282.2	141.1	298.9	440.0	418.0
Protein	g	0.9	0.5	3.0	3.5	3.3
Fat	g	3.5	1.8	4.7	6.5	6.2
Carbohydrate	g	8.2	4.1	4.1	8.2	7.8
Vitamins						
Vitamin A, Retinol	µg	45.0	22.5	23.1	45.6	43.3
Vitamin A, Retinol	IU	149.9	75.0	76.9	151.9	144.3
Vitamin D	µg	0.0	0.0	0.1	0.1	0.1
Vitamin D	IU	0.0	0.0	4.0	4.0	3.8
Vitamin E	mg	0.6	0.3	0.2	0.5	0.5
Vitamin E	IU	0.9	0.5	0.3	0.8	0.8
Vitamin K	µg	0.3	0.2	**	0.2	0.2
Vitamin C	mg	10.0	5.0	**	5.0	4.8
Vitamin B1, Thiamine	µg	20.0	10.0	3.3	13.3	12.6
Vitamin B2, Riboflavin	µg	50.0	25.0	9.7	34.7	33.0
Vitamin B3, Niacin	mg	0.4	0.2	0.1	0.3	0.3
Vitamin B5, Pantothenic Acid	mg	0.2	0.1	0.1	0.2	0.2
Vitamin B6, Pyridoxine	µg	20.0	10.0	**	10.0	9.5
Vitamin B7, Biotin	µg	0.7	0.4	**	0.4	0.4
Vitamin B9, Folate	µg	11.0	5.5	5.8	11.3	10.7
Vitamin B12, Cobalamin	µg	0.1	0.1	**	0.1	0.1
Minerals						
Sodium	mg	18.5	9.3	67.3	76.6	72.8
Potassium	mg	47.5	23.8	89.4	113.2	107.5
Chloride	mg	42.5	21.3	96.3	117.6	111.7
Calcium	mg	22.5	11.3	142.0	153.3	145.6
Phosphorus	mg	13.0	6.5	75.7	82.2	78.1
Magnesium	mg	3.3	1.7	8.7	10.4	9.9
Iron	mg	0.1	0.1	0.1	0.2	0.2
Zinc	mg	0.2	0.1	1.6	1.7	1.6
Copper	µg	30.0	15.0	126.2	141.2	134.1
Iodine	µg	15.0	7.5	11.0	18.5	17.6
Selenium	µg	2.0	1.0	4.7	5.7	5.4
Manganese	µg	0.3	0.2	5.3	5.5	5.2
Humavant+10 fortifier mixed with donor milk[†]:403 mOsm/kg						

§Nutrient contributions from ProLacta's fortifier are based on median values derived from multiple lots (macronutrients and minerals, except iodine and selenium) or values derived from a composite of multiple lots (vitamins, iodine, and selenium). Nutrient contributions from term human milk are average or representative values drawn from Reference 1.

**Not a significant source of this nutrient.

†Humavant® HM human milk (human, pasteurised)

1 American Academy of Pediatrics Committee on Nutrition. Appendix A. In: Kleinman RE, Greer FR, eds. *Pediatric Nutrition*. 8th ed. Itasca, IL: American Academy of Pediatrics; 2019:1505-1508.

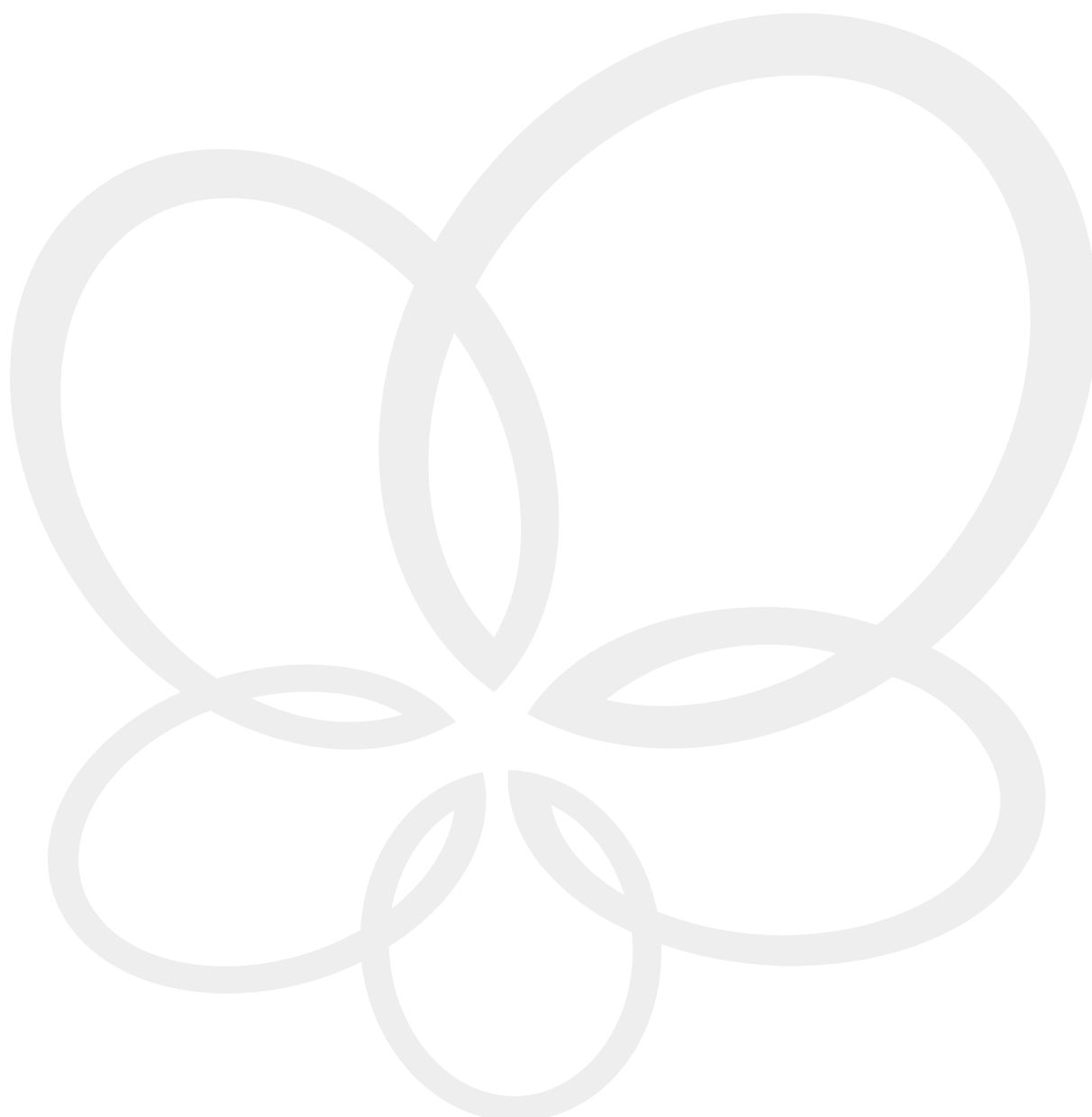
Humavant® CR (10 ml) Nutrition Information

The nutrient values are provided for general reference only. They are based on median values derived from multiple lots. The values are standardised.



NUTRIENTS*	Unit	Humavant CR		
		1.0	10.0	100.0
Volume	ml	1.0	10.0	100.0
Calories	kcal	2.6	26.2	262.0
Kilojoules	kJ	11.0	109.5	1095.2
Protein	g	0.0	0.1	0.8
Fat	g	0.3	2.6	25.7
Carbohydrate	g	0.1	0.7	6.9
OSMOLALITY		with donor milk†: 287 mOsm/kg		

†Humavant® HM human milk (human, pasteurised)



Humavant® RTF 24/26/28 (100 ml)

Nutrition Information



The nutrient values are provided for general reference only. They are based on median values derived from multiple lots, values derived from an individual lot, or values derived from a composite of multiple lots. The values are standardised.



NUTRIENTS		Unit	Humavant RTF 24*	Humavant RTF 26†	Humavant RTF 28†
Volume	ml		100.0	100.0	100.0
Calories	kcal		85.0	92.0	99.1
Kilojoules	kJ		355.3	384.6	414.2
Protein	g		2.4	2.7	2.9
Fat	g		4.7	5.4	6.0
Carbohydrate	g		8.2	8.2	8.1
Vitamins					
Vitamin A, Retinol	µg		27.1	42.2	42.2
Vitamin A, Retinol	IU		90.2	140.5	140.5
Vitamin D	µg		0.1	**	0.1
Vitamin D	IU		4.0	**	4.0
Vitamin E	mg		0.2	0.2	0.3
Vitamin E	IU		0.3	0.3	0.4
Vitamin K	µg		**	**	**
Vitamin C	mg		**	**	**
Vitamin B1, Thiamine	µg		6.2	5.8	5.6
Vitamin B2, Riboflavin	µg		15.1	16.7	14.8
Vitamin B3, Niacin	mg		0.1	0.1	0.1
Vitamin B5, Pantothenic Acid	mg		0.2	0.2	0.2
Vitamin B6, Pyridoxine	µg		**	**	**
Vitamin B7, Biotin	µg		4.4	2.8	**
Vitamin B9, Folate	µg		5.2	6.3	6.6
Vitamin B12, Cobalamin	µg		**	**	**
Minerals					
Sodium	mg		58.6	61.4	66.2
Potassium	mg		88.5	91.8	99.9
Chloride	mg		77.1	77.1	77.1
Calcium	mg		126.0	136.2	146.4
Phosphorus	mg		67.5	72.8	79.2
Magnesium	mg		7.3	7.9	8.7
Iron	mg		0.0	0.1	0.1
Zinc	mg		0.8	0.8	0.9
Copper	µg		84.5	82.4	93.0
Iodine	µg		12.6	16.8	19.7
Selenium	µg		3.5	4.0	4.4
Manganese	µg		5.7	6.2	6.7
OSMOLALITY	mOsm/kg		384.0	383.0	393.0

*Nutritional values are median values derived from multiple lots (macronutrients and minerals, except iodine and selenium) or values derived from an individual lot (vitamins, iodine, and selenium).

**Not a significant source of this nutrient.

†Nutritional values are median values derived from multiple lots (macronutrients and minerals, except iodine and selenium) or values derived from a composite of multiple lots (vitamins, iodine, and selenium).



Pocket

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