

Brauer Infant Multivitamins

Newborn use only

2024

Alert	Use only when Pentavite is not available. International units (IU) are labelled as units in this formulary. 1 microgram colecalciferol = 40 international units (or units) of vitamin D3.	
Indication	Vitamin supplementation Suggested age group: <37 weeks and/or birthweight <2.5 Kg.	
Action	Multivitamin supplement	
Drug type	Multivitamin	
Trade name	Brauer Liquid Multivitamin for Infants (0+)	
Presentation	Oral liquid Each 1mL liquid contains:	
	Betacarotene (retinol equivalents 250 microgram)	3 mg
	Vitamin D3 (colecalciferol)	200 units (5 microgram)
	Vitamin B1 (thiamine hydrochloride)	112 microgram
	Vitamin B2 (riboflavin) (riboflavin sodium phosphate 195 microgram)	150 microgram
	Nicotinamide	1 mg
	Vitamin B6 (pyridoxine) (pyridoxal 5-phosphate monohydrate 177 microgram)	100 microgram
	Vitamin B12 (cyanocobalamin)	417 nanogram
	Levomefolic acid (Quatrefolic®) (levomefolate glucosamine 144.3 microgram)	80 microgram
	Vitamin C (ascorbic acid) and calcium (calcium ascorbate dihydrate 9.12 mg)	7.5 mg and 860 microgram
	Vitamin E (d-alpha tocopheryl acetate)	4.04 mg
	Choline (choline bitartrate 91.91 mg)	37.5 mg
	Biotin	1.5 microgram
Dose	Use only when Pentavite is not available (see table in special comments for comparison). 1 mL once or twice daily. Dose is not based on weight. (Refer to special comments) NOTE: To optimise vitamin D intake, a combination of vitamin D3 liquid - 400 units/day PLUS Brauer infant vitamins 1 mL DAILY (200 units of vitamin D) may be considered. Suggested regimen: (1) To be given when the infant is tolerating ≥ 120 mL/kg/day of enteral feeds. (2) Continue up to 6-12 months corrected age.	
Dose adjustment		
Maximum dose	2 mL/day	
Total cumulative dose		
Route	Oral	
Preparation		
Administration	Oral or intra-gastric tube. Administer undiluted or mixed with a small amount of milk into infant's mouth through a feeding teat or via intra-gastric tube.	
Monitoring		
Contraindications	Not yet tolerating full feeds.	
Precautions	Direct administration into the mouth may cause choking and apnoea.	
Drug interactions	No information.	
Adverse reactions		
Overdose	For further information, contact the Poisons Information Centre on 131 126 (Australia).	
Compatibility	Not applicable.	
Incompatibility	Not applicable.	
Stability	Shake well before use.	
Storage	Store below 25°C. Protect from light.	

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Excipients	Ascorbyl palmitate, dl-alpha-tocopherol, gelatin, glycerol, maize oil, maize starch, potassium sorbate, purified water, sucrose, vegetable oil, xanthan gum.																																										
Special comments	Brauer formula supplies betacarotene as the source of vitamin A. Betacarotene may be a suitable source of vitamin A in neonates. Vitamin D content is 200 units/mL. A dose of 1 mL BD provides a dose of 400 units daily. <table><tr><th></th><th>Pentavite 0.45 mL</th><th>Brauer 1 mL</th></tr><tr><td>Vitamin A</td><td>390 microgram</td><td></td></tr><tr><td>Betacarotene</td><td></td><td>3 mg (equiv. to Retinol equivalent 250 microgram)</td></tr><tr><td>Vitamin D3</td><td>10.1 microgram</td><td>200 units (equiv. to 5 microgram colecalciferol)</td></tr><tr><td>Vit. B1</td><td>540 microgram</td><td>112 microgram</td></tr><tr><td>Vit. B2</td><td>810 microgram</td><td>150 microgram</td></tr><tr><td>Nicotinamide</td><td>7.1 mg</td><td>1 mg</td></tr><tr><td>Vit. B6</td><td>111 microgram</td><td>100 microgram</td></tr><tr><td>Vit. B12</td><td></td><td>0.417 microgram</td></tr><tr><td>Levomefolate glucosamine</td><td></td><td>144.3 microgram (equiv. to Levomefolic acid 80 microgram)</td></tr><tr><td>Vitamin C</td><td>42.8 mg</td><td>Calcium ascorbate dihydrate 9.12 mg (equiv. to Vitamin C 7.5 mg and Calcium 0.86 mg)</td></tr><tr><td>Vit. E</td><td></td><td>4.04 mg</td></tr><tr><td>Choline</td><td></td><td>37.5 mg</td></tr><tr><td>Biotin</td><td></td><td>1.5 microgram</td></tr></table>		Pentavite 0.45 mL	Brauer 1 mL	Vitamin A	390 microgram		Betacarotene		3 mg (equiv. to Retinol equivalent 250 microgram)	Vitamin D3	10.1 microgram	200 units (equiv. to 5 microgram colecalciferol)	Vit. B1	540 microgram	112 microgram	Vit. B2	810 microgram	150 microgram	Nicotinamide	7.1 mg	1 mg	Vit. B6	111 microgram	100 microgram	Vit. B12		0.417 microgram	Levomefolate glucosamine		144.3 microgram (equiv. to Levomefolic acid 80 microgram)	Vitamin C	42.8 mg	Calcium ascorbate dihydrate 9.12 mg (equiv. to Vitamin C 7.5 mg and Calcium 0.86 mg)	Vit. E		4.04 mg	Choline		37.5 mg	Biotin		1.5 microgram
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Evidence	No studies were located which examined the impact of multivitamin supplementation on any outcomes in low birth weight (LBW) infants. Policy statements from organisations in developed countries recommend providing multivitamin supplementation with a neonatal multivitamin preparation containing vitamins A, D, C, B1, B2, B6, pantothenic acid and niacin to all LBW infants receiving human milk from birth until the infant attains a weight of 2000 g. Many units provide a multivitamin preparation to all LBW infants until 6 to 12 months chronological age. Vitamin D – There is evidence of reduced linear growth and increased risk of rickets in babies with a birth weight < 1500 g fed un-supplemented human milk. There is no consistent benefit of increasing the intake of vitamin D above 400 units per day. There are no clinical trial data on the effect of vitamin D on key clinical outcomes in infants with a birth weight > 1500 g.																																										
Practice points																																											
References	1. Product Information: Brauer Infant Multivitamins Oral Liquid. Liquid Multivitamin for Infants - Our Range - Brauer Website Accessed 25/8/23 2. Edmond K. Optimal feeding of low-birth-weight infants, technical review. London School of Hygiene and Tropical Medicine, London, U.K. Rajiv Bahl, MD, PhD. Department of Child and Adolescent Health and Development, WHO, Geneva. 3. https://dietarysupplementdatabase.usda.nih.gov/Conversions.php. Accessed on 17 November 2021.																																										

VERSION/NUMBER	DATE
Original 1.0	25/08/2023
Version 1.0 (Minor errata)	14/09/2023
Version 1.0 (minor errata)	18/07/2024

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Version 2.0	15/08/2024
Current 2.0 (minor errata)	22/08/2024
REVIEW	15/08/2029

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