

Calogen

Newborn use only

2018

Indication	Fat supplementation for neonates.
Action	Long chain triglyceride fat emulsion.
Drug Type	50% Long chain triglyceride (LCT) and 50% water. Source of Oil: Vegetable oils (rapeseed oil, sunflower oil). Also contains demineralised water and emulsifier (citric acid esters of mono and diglycerides of fatty acids). 60% of fatty acids are monounsaturated, 28% are polyunsaturated. $\omega 6/ \omega 3$ ratio: 5:1.
Trade Name	Calogen
Presentation	200 mL and 500 mL. Contains 0.5 g LCT/mL fat giving 4.5 kcal/mL.
Dosage / Interval	1–2 g/kg/day (2-4 mL/kg/day) in 3-4 divided doses.
Maximum daily dose	4 g/kg/day
Route	ORAL
Administration	Oral or via intra gastric tube. DO NOT GIVE IV!
Contraindications	Acute intestinal obstruction Acute necrotising enterocolitis Flavoured Calogen (strawberry) is not suitable for infants under 1 year of age. ⁴
Adverse Reactions	Lipid aspiration pneumonia ³
Stability	
Storage	Store in room temperature. Once opened, store in refrigerator and discard any unused product within 14 days. ⁴
Evidence summary	Fat is the major source of energy in human milk (i.e. 40-45% of the total energy provided). ¹ Intestinal fat digestion and absorption is reduced in preterm infants and as much as 20-30% of the dietary lipids are excreted in the stool. Triglycerides account for the largest proportion of dietary fat. Structurally, these have 3 fatty acid molecules esterified to a single molecule of glycerol. ²
References	<ol style="list-style-type: none"> 1. Koletzko B, Poindexter B, Uauy R (eds). Nutritional care of preterm infants: Scientific basis and practical guidelines. Worl Rev Nutr Diet. Baeel, Karger, 2014, vol 110, pp 82-98. 2. American Academy of Pediatrics Committee on Nutrition. Fats and fatty acids. In: Kleinman RE, Greer FR, eds. Pediatric Nutrition. 7th ed. Elk Grove Village, IL: American Academy of Pediatrics; 2014: 407-434. 3. Wolfson BJ, Allen JL, Panitch HB, Karmazin N. Lipid aspiration pneumonia due to gastroesophageal reflux. Pediatric radiology. 1989 Sep 1;19(8):545-7. 4. Calogen. Nutricia Advanced Medical Nutrition. Product information accessed on 28 June 2018.

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