

# 20 mL

Must be mixed with  
80 mL human milk

# Humavant® +4

## Human Milk Fortifier (Human, Pasteurized)

### Food for special medical purpose

For the dietary management of premature/low-birth-weight infants fed human milk. Product must be used under medical supervision. Not for parenteral use.

## Product Description

Humavant® +4 human milk fortifier (HMF) is the only HMF made exclusively from 100% donor breast milk. The product is a human milk-based, concentrated, pasteurized, liquid HMF that helps provide essential calories, protein, and minerals to meet the nutritional needs of premature infants.

- Nutritionally incomplete. Infant will require additional vitamins and iron added separately from the product.
- Available frozen in 125 mL bottles containing 20 mL of product.

## Ingredients

Human milk, calcium glycerophosphate, calcium gluconate, sodium citrate, potassium citrate, calcium chloride, magnesium phosphate, zinc sulfate, cupric sulfate.

## Storage

Store at -20°C or colder until ready to thaw for use.

## Directions for Thawing

**Under no circumstances should the product be defrosted or warmed in a microwave.**

Recommended method of thawing is refrigeration (2°C to 8°C).

- Place unopened (frozen) bottle in refrigerator for 2-5 hours. Thaw time will vary by fortifier concentration. As the caloric value (volume) increases, the thaw time may take longer.
- Swirl gently to detect ice in the bottle. If ice is still present, return to the refrigerator for additional thaw time. Repeat until no ice is detected.
- Once the thawing process begins, administer within 48 hours.
- Do not refreeze. Keep refrigerated until used.

## Preparation Instructions

**Always maintain aseptic technique when preparing and handling human milk. DO NOT ADD WATER.**

Each bottle of Humavant +4 fortifier contains 20 mL of fortifier and must be mixed with 80 mL of human milk (ratio 1:4).

- After the bottle has been properly thawed (see above), remove the cap from bottle.
- Add 80 mL of human milk (expressed breast milk or donor milk) into the Humavant +4 bottle to achieve a total volume of 100 mL.
- Gently swirl bottle to mix; DO NOT SHAKE. The product is now ready for use.
- Measure out the fortified milk using sterile syringes according to the feeding order.
- Label each syringe with patient identifier and refrigerate (2°C to 8°C) until administered.

### References:

1. Mimouni FB, Mandel D, Lubetzky R, Senterre T. Calcium, phosphorus, magnesium and vitamin D requirements of the preterm infant. *World Rev Nutr Diet.* 2014;110:140-151. doi:10.1159/000358463
2. Data on file.

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SPI-0014 Rev-1 09/20

## Use of Product

Initiation of enteral feedings and advancement rates should be individualized based on infant's weight, age, and clinical status.<sup>1</sup> Optimally, mother's milk and/or donor milk should provide a minimum of 0.67 kcal (3 kJ) / mL. Calcium to phosphorus ratio supports intrauterine accretion rates.<sup>2</sup> When used under medical supervision, both protein and fat levels are appropriate to achieve adequate growth.

When mixed with 0.67 kcal (3 kJ) / mL preterm human milk, Humavant +4 provides 82 kcal (343 kJ) and 2.5 grams of protein per 100 mL of feeding solution. Nutrition monitoring is always required.

## An Exclusive Human Milk Diet (EHMD)

**An EHMD is achieved when 100% of the protein, fat, and carbohydrates are derived solely from human milk.** Humavant + fortifier is the first and only HMF derived from human milk as opposed to cow milk.

**Only Prolacta Bioscience offers a full line of human milk-based products for providing an EHMD.** If mother's own milk cannot be assured to provide a minimum of 0.67 kcal (3 kJ) / mL, Humavant® CR human milk caloric fortifier can be used. Humavant CR fortifier is a pasteurized formulation of human milk cream (derived from donor human milk) that can be added to mother's milk to increase the caloric content to 0.67 kcal (3 kJ) / mL. If donor milk cannot be assured to provide 0.67 kcal (3 kJ) / mL, consider the use of Humavant® HM pasteurized donor human milk, which is standardized to deliver a minimum of 0.67 kcal (3 kJ) / mL.

An EHMD may require additional nutrients. No commercially-available HMF can be guaranteed to provide the full and necessary nutritional needs of every preterm infant.

## Safety Information

**Abruptly transitioning the infant's diet from this product to cow milk-based nutrition could result in feeding intolerance or gastrointestinal complications. To obtain a copy of Prolacta Bioscience's *Feeding Transition From an Exclusive Human Milk Diet*, please contact your Prolacta Bioscience Representative.**

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