

# Company Fact Sheet

## Advancing the Science of Human Milk®

- Founded in 1999, Prolacta Bioscience® is a privately-held life sciences company dedicated to Advancing the Science of Human Milk to bring the healing power of breast milk to the most critically ill infants in neonatal care. Prolacta's human milk-based neonatal nutritional products are changing the standard of care for preemies in hospitals nationwide.
- Prolacta is the leading provider of human milk-based neonatal nutritional products to hospital neonatal intensive care units (NICUs), and is the first and only company to offer a complete line of nutritional and caloric fortifiers made exclusively from donor breast milk.
- When used as part of an exclusive human milk diet (EHMD)<sup>1</sup>, Prolacta Bioscience's neonatal nutritional products are clinically proven to improve health outcomes<sup>2,3,4</sup> and reduce hospital costs<sup>5,6</sup> for critically ill, extremely premature infants in the NICU weighing between 500-1,250g (1 lb 1 oz to 2 lbs 12 oz) at birth, as compared to cow milk-based fortifier or preterm formula.
- Prolact+ H<sup>2</sup>MF®, which became available to hospitals by prescription in 2006, remains the first and only Human Milk Fortifier (HMF) made from 100 percent donor breast milk, instead of cow milk.
- Prolacta leads the industry in the quality and safety of donor breast milk, operating the first and only pharmaceutical-grade manufacturing facility for the processing of human milk.
  - o The 67,000 sq ft human milk processing facility is located in the City of Industry, Calif.
  - o The facility houses the world's largest human milk freezer. Standing at 115,560 cu ft, at an average temperature of -26 degrees Celsius, the freezer provides controlled frozen storage capacity for more than 110,000L of donor breast milk.
  - o The facility also includes one ISO 7 and two ISO 8 cleanrooms, totaling approximately 10,000 sq ft.
- Prolacta offers donor programs for moms who wish to donate their excess breast milk, to give premature babies the opportunity to benefit from an EHMD. Moms may choose a milk bank that offers her direct compensation or that donates \$1 per oz to Susan G. Komen for the Cure™. Visit [Milkbanking.net](http://Milkbanking.net) for a list of Prolacta-sponsored milk banks.
- Further Advancing the Science of Human Milk, Prolacta is the founding sponsor of the [International Conference on Human Milk Science and Innovation](#), a forum covering the latest in scientific and clinical research related to human milk. The annual conference hosts renowned scientists and neonatologists from around the world.

## As the Pioneer in Human Milk-Based Nutritional Products for the NICU, Prolacta has Many Firsts:

- First and only human milk-based neonatal nutritional fortifier, Prolact+ H<sup>2</sup>MF®, made from 100 percent donor breast milk instead of cow milk
- First and only standardized donor human milk, Prolact HM®
- First and only human milk caloric fortifier, Prolact CR®
- First and only human milk-based premature infant formula, Prolact RTF
- First and only standardized human milk for trophic feeds, PremieLact®
- First and only large-scale donor milk processing facility
- First and only breast milk DNA fingerprint for 100 percent donor identification
- First and only adulteration, nicotine and drug screening tests for donated human milk
- First and only company to conduct clinical trials on the use of an EHMD for preemies in the NICU

## References

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1. An EHMD is when 100% of the protein, fat and carbohydrates in an infant's intake are derived solely from human milk.
2. Sullivan S, et al. An Exclusively Human Milk-Based Diet is Associated with a Lower Rate of Necrotizing Enterocolitis than a Diet of Human Milk and Bovine Milk-Based Products. *The Journal of Pediatrics*. April 2010. 156(4):562-567. doi: 10.1016/j.jpeds.2009.10.040. The randomized study of 207 infants weighing 500-1,250g compared the benefits of an exclusive human milk diet with a diet of both human milk-based and cow milk-based products.
3. Cristofalo EA, et al. Randomized Trial of Exclusive Human Milk versus Preterm Formula Diets in Extremely Premature Infants. *The Journal of Pediatrics*. December 2013. 163(6):1592-1595. doi: 10.1016/j.jpeds.2013.07.011. The multicenter randomized controlled study examined 53 extremely premature infants weighing 500-1250g who were fed either a bovine milk-based preterm formula or an exclusive human milk diet, comparing the duration of parenteral nutrition, growth and morbidity.
4. Abrams SA, et al. Greater Mortality and Morbidity in Extremely Preterm Infants Fed a Diet Containing Cow Milk Protein Products. *Breastfeeding Medicine*. June 2014. 9(6): 281-0285. doi:10.1089/bfm.2014.0024. This cohort study included 260 extremely preterm infants born weighing less than 1,250g who received a diet that ranged from 100% cow milk to 100% human milk.
5. Ganapathy V, et al. Costs of Necrotizing Enterocolitis and Cost-Effectiveness of Exclusively Human Milk-Based Products in Feeding Extremely Premature Infants. *Breastfeeding Medicine*. February 2012. 7(1):29-37. doi: 10.1089/bfm.2011.0002. This cost-effectiveness analysis of 2,560 extremely premature infants less than 28 weeks gestational age in 257 hospitals nationwide, comparing the impact of an exclusive human milk diet composed of mother's milk fortified with a human milk-based fortifier versus mother's milk fortified with cow milk-based fortifier.
6. Assad M, et al. Decreased Cost and Improved Feeding Tolerance in VLBW Infants Fed an Exclusive Human Milk Diet. *Journal of Perinatology*. March 2016. 36:216-220. doi: 10.1038/jp.2015.168. The study retrospectively looked at 293 preterm infants between gestational ages of 23 to 34 weeks and birth weights between 490-1,700g in the Level III NICU. The study compared the clinical and financial impacts between infants that were fed an exclusive human milk diet; cow milk-based fortifier and maternal milk; mixed combination of maternal milk, cow milk-based fortifier and cow milk-based formula; and formula between March 2009 and March 2014.