Using infant formulas is second to breastfeeding, a fact supported by WHO. This information is for professional use only.
Infant nutrition for the next generation

Dedicated pediatric nutrition from a leading global dairy company

Arla Foods Ingredients is a specialist provider of advanced innovative solutions within the milk-based ingredients industry.

We are a subsidiary part of Arla Foods, one of the key players in the international dairy industry. The Arla history dates back to 1881 when the first dairies in Denmark and Sweden were founded.

In Team Pediatrics, our overriding goal is to develop a range of scientifically documented ingredients that resemble key functionalities in human milk.

Used in infant formula they contribute to healthy growth and development of formula fed infants.

A team of specialists

Our dedicated infant nutrition and product development teams draw expertise from a broad base of specialists from within human nutrition, molecular biology, dairy engineering, food technology, production engineering and marketing.

As well as offering extensive support, our specialists work towards a common goal: to help you meet the current and future needs of both your business and your customers.
Our areas of interest...

**Gastrointestinal health**
Specific proteins and components in whey protect the infant gut by promoting the growth of beneficial bacteria as well as inhibiting colonisation and infection by pathogens.

Whey ingredients such as Arla Foods Ingredients' Lacprodan® ALPHA-10, Lacprodan® ALPHA-20 and Lacprodan® MFGM-10 all support the physiological development of the gut on various levels.

**Optimised protein formula**
Optimisation by reducing protein content in infant formula is a key objective for many producers. An increasing number of studies point to the relationship between a high intake of protein early in life and the onset of obesity and other adverse effects later in life.

Whey protein fractions make it possible to advance infant formulas in the direction of human milk. Lacprodan® ALPHA-10 and Lacprodan® ALPHA-20 enriched infant formulas allow for a lower protein content due to higher levels of essential amino acids.

**Comfort**
Many infants fed conventional infant formula suffer from gastrointestinal discomfort, such as colic, re-gurgitation and constipation, as a result.

We have several products suitable for comfort infant formula such as Lacprodan® ALPHA-10 and Lacprodan® ALPHA-20, an easy digestible protein with a high level of essential amino acids. Our range of hydrolysed proteins are pre-digested and suitable for easy digestion and finally low-lactose formulas may help to settle gastrointestinal symptoms.

**Allergy treatment and prevention**
We have a broad range of hydrolysed whey and casein proteins for use in your products designed for both allergy treatment and prevention.

These products are designed and tested for important quality descriptors ensuring a consistent quality to this sensitive consumer group.

**Cognitive development and performance**
Multiple factors influence the cognitive development of infants in early life – nutrition being one of them. The phospholipids and gangliosides from Lacprodan® PL-20 and Lacprodan® MFGM-10 contribute to development of cognitive performance and gastrointestinal system. Only bovine milk has a similar phospholipid profile to human milk. By addition of Lacprodan® PL-20 or Lacprodan® MFGM-10 to infant formula, formula fed infants gain similar phospholipid benefits as breastfed infants.

**Immunity**
Maturation of the immune system is of great importance during infancy.

An appropriate immune response is essential for the clearance of intracellular pathogens such as viruses and certain bacteria. In studies on knockout mice, osteopontin has been shown to possess a key role in the development of immunity as well as to enhance host resistance to infections. Arla Foods Ingredients offers Lacprodan® OPN-10 as an ingredient for immune development.
The best alternative
to human milk
Helping parents make the right choice

When breastfeeding is not an option, every parent
looks for the best alternative.

The selection of infant formula is one of the most important
decisions a guardian will make on their child’s behalf.

The knowledge that your product contains market leading
ingredients, scientifically supported to enhance growth and develop-
ment will be an important factor in their decision.

This will contribute to successful differentiation of your product in
a huge and very competitive market.

Bringing you closer to nature
We are committed to bringing you closer to providing the best
alternative to human milk. Our driving force is our dedication to
meet your business needs and so we are continuously striving to
improve our portfolio.

Leaders in innovative solutions
It is our dedication to the continuous development of new frac-
tions of milk proteins that has enabled us to be first to market with
a number of milk-based innovative ingredients.

We were the first company to produce alpha-lactalbumin and hold
the patent on osteopontin, both important components of breast
milk.

The next generation of products
When it comes to the future development of ingredients for infant
nutrition, we have an exciting product pipeline.
Ingredients for the next generation

We have a market-leading range of ingredients that are scientifically documented to add important nutritional value to your infant formula.
Osteopontin

Osteopontin is a heavily phosphorylated and acidic glycoprotein with strong calcium-binding properties. Studies suggest that it plays a role in the development of immune functions in infants. At Arla Foods Ingredients, we hold the intellectual property rights to the processing and application of osteopontin.

Milk Fat Globule Membrane (MFGM)

The MFGM that surrounds the fat globule triglyceride contains phospholipids (such as sphingomyelin and gangliosides). These components are recognised as nutritional and bioactive milk constituents and are present only scarcely in bovine milk compared to human milk. We have developed a production process that allows the gentle separation of MFGM from cow’s milk. The MFGM fraction is suitable for the fortification of infant formula with bioactive ingredients.

Milk Phospholipids

Phospholipids are important for the development of the central nervous system, cognitive performance and the intestinal system. We have developed a unique source of phospholipids with a similar profile to human milk, thus enabling you to mimic the phospholipid profile of human milk in infant formula.

Alpha-lactalbumin

Alpha-lactalbumin is rich in essential and conditionally essential amino acids and is a dominant protein in human milk. Alpha-lactalbumin is a key protein in low protein infant formulas that mimic human milk in terms of protein concentration.

CGMP is a rich source of sialic acid that is a conditionally essential nutrient for brain development and cognition. A study on piglets has demonstrated CGMP’s ability to enhance learning and memory. CGMP is also capable of supporting healthy microflora and reducing the effects of intestinal pathogens. Due to its low content of phenylalanine, CGMP is also suitable for a phenylketonuria (PKU) diet.

Hydrolysates

Partially and extensively hydrolysed whey and casein proteins are increasingly being added to infant formulas to prevent allergy or to aid protein digestion. We have a wide range of hydrolysates fitting the needs of our customers.
Quality is our top priority
Putting safety first in everything we do

In the development of ingredients for infants, it is crucial to maintain impeccable standards of hygiene throughout the production process. There is no room for compromise.

At Arla Foods Ingredients, we control the entire supply chain from the sourcing of raw materials to the packaging of finished product. The highest standards of quality and hygiene are maintained throughout the chain.

Our assurance of quality
All of our manufacturing facilities are fully compliant with EC regulations and have HACCP (Hazard Analysis and Critical Control Points) systems in place to help ensure documentation and the full traceability of products through the production process.

Each of our ingredients is produced to a consistent formulation, ensuring that your products can offer completely constant levels of nutritional benefits.

Our high quality standards permit us to utilise advanced process conditions which result in high protein quality.

Finally, as babies are also vulnerable to even the smallest change, we have strict processes in place to ensure that every one of our ingredients is produced to a consistent formulation.

Satisfying regulatory demands
Infant nutrition is subject to rigorous regulation – and we do everything we can to help you keep up with the latest legislative standards.
Discovering the future together
Sharing knowledge to ensure innovative solutions

Precise replication of human milk is not yet possible but, every day, global research takes us one step closer.

For this reason, we maintain strong ties with the scientific community and are focused on investigating new trends in infant nutrition.

Together we investigate milk-based ingredients that can mimic key components in human milk. Scientific discoveries enable us to meet the current and future demands of the infant nutrition market.

Scientifically documented nutritional benefits
Thorough documentation is your guarantee of our ingredients’ functional effects. Pre and clinical assessments are a natural part of our ongoing product development. Only by comprehensive testing can we be sure to provide infants with the best possible substitute for human milk.

Create with us
In order to produce an ingredient that meets your specific requirements, we invite you to work with us in the creative process of developing new solutions that will either fit into the specific requirements of your product, or help enhance the profile and nutritional efficacy of your range.

To discuss more about how to develop your product range with ingredients for the next generation, speak to your Arla Foods Ingredients contact, or logon to our website at www.arlafoodsingredients.com for more inspiration.