

## INNOVATION TODAY AND TOMORROW

Together with established infant nutrition authorities in Europe, we have committed to a major long-term research program to identify and substantiate new Betapol® benefits. These studies have indicated that the OPO structure may also lead to a positive impact on brain functionality and a healthy weight as a result of improved fat distribution. These Sn-2 fat innovations will enable us to extend the Betapol® portfolio and further develop new OPO products and product combinations adding value to your brand.



### PROVEN BY SCIENCE

Carnielli

*"It has been proven that infant formulas containing Betapol® are much more easily absorbed by infants. Research also shows that Betapol® protects infants from the pain and discomfort of constipation, while improving calcium intestinal absorption."*

Virgilio P. Carnielli, MD, PhD, Professor of Neonatal Pediatrics, Polytechnical University of Marche. Director of Neonatal Medicine, G. Salesi Hospital, Ancona, Italy.

## DUTCH HERITAGE



Betapol® is developed by Bunge Loders Croklaan in the Netherlands. Since we invented the scientific process behind it, the process has been successfully duplicated in our other locations to cater to customers worldwide.

With over 30 years of experience in infant nutrition, we know how sensitive the market is to food safety. Since we are directly supplied by our parent company's high quality oil, we have unmatched control throughout our supply chain from crop to end product.

- Steady supply of high quality OPO fat
- Global production
- Excellent food safety
- High traceability



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## ABOUT THE INVENTOR

### Bunge Loders Croklaan

Betapol® was developed by Bunge Loders Croklaan as the very first fat blend to mimic human milk fat for infant formula. Bunge Loders Croklaan is a leading producer and supplier of specialty oils and fats to food manufacturers around the world.



## BETAPOL

CLOSER TO NATURE EVERY DAY



Betapol® is a brand of Bunge Loders Croklaan



Breastfeeding is an important bonding experience and provides babies with the best start in life. When breastfeeding is not an option, choosing the best infant formula is key for healthy growth and development. While mother's milk fat contains only 3-4% fat it makes up 50% of a baby's energy intake. Betapol is the ideal choice for infant formula because it mimics the fat composition and unique OPO fat structure of mother's milk.

Over 30 years ago we invented the process behind Betapol's unique OPO structure

## BETAPOL, THE OPO BRAND

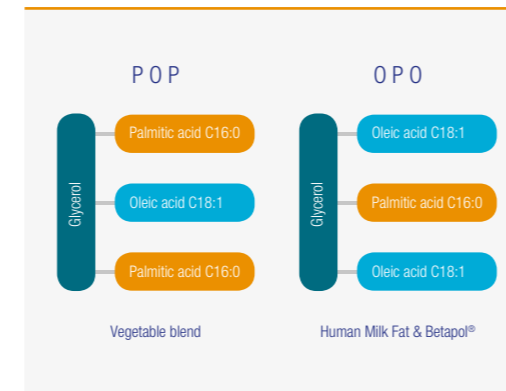


### THE SCIENCE OF OPO

The composition and structure of human milk fat is vital to the health and nutrition of babies. The fat in human breast milk is in the form of fork-shaped triglycerides. In human milk fat, palmitic acid is bound to the triglyceride's Sn-2 position. The Sn-1 and Sn-3 positions are occupied by oleic acid. This unique OPO fat structure allows babies to absorb more palmitic acid and calcium which contributes to significant nutritional benefits:

The OPO fat structure allows babies to absorb more palmitic acid and calcium

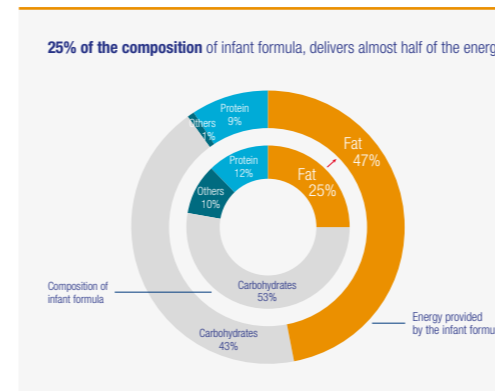
#### DIFFERENCE IN FAT STRUCTURE



#### REVOLUTIONIZING THE IMF MARKET

Over 30 years ago in the Netherlands, Bunge Loders Croklaan invented a process to accurately rearrange fatty acids on triglycerides without using chemicals. Betapol® brings infant milk formula closer to nature.

#### THE IMPORTANCE OF FAT



#### ENABLING YOUR BRAND

Since it was launched in 1995, Betapol® has established an extensive safety record in Europe and numerous scientific studies have substantiated its benefits. That is why it is widely trusted as the standard for OPO fats. And because we can support our products with solid scientific data, so can you.

#### BUNGE LODERS CROKLAAN: IMPECCABLE SERVICE

We are eager to be a growth enabler for our customers. Plus, when it comes to Betapol®, our goal is the same as yours – providing mothers with the best possible alternative to breast milk. We have been improving our products for decades and our extensive knowledge is at your disposal. Our Betapol® team is always willing to help you to:

- Identify the right Betapol blend for you: Betapol® offers formula producers the closest match to mother's milk. This specialty structured lipid can be provided alone or as an ingredient in different blends, depending on your specific requirements. Our Application and Technical Support team can help you identify the right blend for you.

- Build market successes: When you sell a product designed to improve human health, you are making big promises which all need to be clear, transparent and appropriate.
  - Our Legal Department is ready to help you navigate and comply with local and global regulations.
  - Our team of scientists will help you identify the most powerful market-specific claims for your end product, to ensure market success.
  - Our sales and customer service teams strive to provide the best service and support in order to ensure a reliable customer-centric sales experience.

PRODUCT	% OF THE PALMITIC ACID IN THE MIDDLE POSITION	USE
Betapol® B-55	~ 55%	Concentrated OPO
Betapol® 45	~ 45%	Ready-to-use OPO blend for infant formula
Betapol® 41	~ 41%	
Customized Betapol® blends or dry blends available		

Betapol® is approved for use in many countries around the world, including Australia, New Zealand, China, the EU, and the US. All our products are available with Kosher or Halal certification.



IMPROVED ENERGY INTAKE



REDUCED CONSTIPATION



INCREASED BONE MINERAL DENSITY



HEALTHY GUT BACTERIA



REDUCTION OF CRYING



BETTER NIGHT SLEEP