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 OPO 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. From our invention to 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. This is why we are directly supplied by our parent company. High quality oil, low fat content, highest purity, natural and no preservatives, is a direct result of our strict control throughout our supply chain from crop to end product.

INNOVATION TODAY AND TOMORROW
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 formulas. Bunge Loders Croklaan is directly involved in the support of specialty fat companies to food manufacturers around the world.

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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.

**DIFFERENCE IN FAT STRUCTURE**

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.

**REVOLUTIONIZING THE IMF MARKET**

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.

**THE SCIENCE OF OPO**

The composition and structure of human milk fat is optimal for 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.

**BETAPOL, THE OPO BRAND**

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.

**THE IMPORTANCE OF FAT**

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

**ENABLING YOUR BRAND**

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 experience is at your disposal. Our Betapol® team is always willing to help you to:

- Identify the right Betapol blend for your targets.
- Help you navigate and comply with local and global regulations.
- Identify the most powerful market-specific claims for your end product, to ensure market success.
- 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**

<table>
<thead>
<tr>
<th>Betapol® blend</th>
<th>% of Palmitic Acid in the Middle Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>betapol® B-55</td>
<td>~ 55% Concentrated OPO</td>
</tr>
<tr>
<td>Betapol® 45</td>
<td>~ 45%</td>
</tr>
<tr>
<td>Betapol® 41</td>
<td>~ 41%</td>
</tr>
<tr>
<td>Customized Betapol®</td>
<td>on request</td>
</tr>
</tbody>
</table>

**DIFFERENCE IN FAT STRUCTURE**

<table>
<thead>
<tr>
<th>Fat</th>
<th>Palmitic Acid C16:0</th>
<th>Oleic Acid C18:1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human Milk Fat &amp; Betapol</td>
<td>Palmitic acid</td>
<td>Oleic acid</td>
</tr>
<tr>
<td>Vegetable blend</td>
<td>Palmitic acid</td>
<td>Oleic acid</td>
</tr>
</tbody>
</table>

**IMPROVED ENERGY INTAKE**

- Reduced Constipation
- Increased Bone Mineral Density
- Healthy Gut Bacteria
- Reduction of Crying
- Better Night Sleep

**BUNGE LOERS CROKLAAN: IMPECCABLE SERVICE**

- Our Application and Technical Support team can help you identify the right blend for you.
- 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.