Probiotics isolated from human breast milk

HEALTH FROM MOTHER’S NATURE
THE MOST CRITICAL TIME FOR GOOD NUTRITION IS IN THE BRIEF 1,000 DAY PERIOD— from the start of a woman’s pregnancy until a child’s second birthday—is a unique period of opportunity when the foundations of optimum health, growth, and neurodevelopment across the lifespan are established.

- Nutrition plays a key role during the FIRST THOUSAND DAYS OF LIFE
- Everything a baby eats or does in the first thousand days MAKES THE DIFFERENCE FOR THE REST OF ITS LIFE
- BREASTMILK IS A CRUCIAL FOOD FOR CHILDREN’S HEALTH and development during this critical window. It provides all of the vitamins, minerals, enzymes and antibodies that children need to grow and thrive in the first 6 months of life, and continues to be a pivotal part of their diet up to the age of 2 or beyond.

IMMUNACTIV LC40® Infant

*Lactobacillus fermentum CECT5716 (LC40®)* reduces the incidence of gastrointestinal and upper respiratory tract infection and guarantees the effective immunological response.

BREASTMILK IS SUPERFOOD FOR BABIES

Breast milk is the best nutrition an infant can get, but it also serves as the first immunization against illness and disease.

NUTRIENTS FROM A VARIETY OF HEALTHY FOODS

Not only is it the best nutrition an infant can get, but it also serves as the first immunization against illness and disease.

**CLINICAL RESULTS**

**THE ORAL CONSUMPTION OF LC40® PROTECTS FROM DIARRHEA IN CHILDHOOD BY MORE THAN 40%**

**THE ORAL CONSUMPTION OF LC40® REDUCES THE DURATION OF DIARRHEA DURING CHILDHOOD BY APPROX. 2.5 DAYS**

**THE ORAL CONSUMPTION OF LC40® PROTECTS FROM RESPIRATORY INFECTION**

**SAFETY**

- **LONG-TERM SAFETY**: 3-year study shows that the early administration of *L. fermentum CECT5716 (LC40®)* is safe and does not produce measurable differences in children (weight, length and head circumference).
- **DAILY ADMINISTRATION** of LC40® is safe and well tolerated in adults and children.
- **THE ORAL ADMINISTRATION OF LC40® IS SAFE**, even at doses much higher (x 10,000) than the ones normally consumed by humans.

**BIOSEARCH LIFE** was the first company to investigate breast milk in search for active compounds that could be beneficial for maternal and child health and discovered that it is not sterile and isolated and characterised probiotics from it.

**Hereditum** is Biosearch Life’s range of premium probiotics isolated from human breast milk.

**Hereditum** strains can modulate human immune defences, reducing the risk of infections and alleviating inflammatory responses in several chronic inflammatory diseases.
TECHNICAL INFORMATION

**Food supplement**

<table>
<thead>
<tr>
<th>STRAIN</th>
<th>cfu/dose</th>
<th>Example amount per dose*</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC40®</td>
<td>2X10^8 (&lt;3years)</td>
<td>8mg/sachet (&lt;3years)</td>
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<tr>
<td>LC40®</td>
<td>4X10^8 (&gt;3years)</td>
<td>16mg/sachet (&gt;3years)</td>
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**Infant formula**

<table>
<thead>
<tr>
<th>STRAIN</th>
<th>cfu/dose</th>
<th>Example amount per dose*</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC40®</td>
<td>1X10^2 cfu/g formula</td>
<td>0,1 mg/g formula</td>
</tr>
</tbody>
</table>

*The amount per dose may vary depending upon the dosage form used.

- **Stability** Stability studies performed in different applications (Food and Food supplements). Guaranteed stability until end of shelf life in the final application
- **Protection:** *L. fermentum* CECT5716 is patented in the World Intellectual property Organization (WO/2004/003235).
- **Certification**
  - LC40® (*L. fermentum* CECT5716) is QPS in Europe.
  - LC40® (*L. fermentum* CECT5716) has GRAS status of FDA.
  - NDI: LC40® (*L. fermentum* CECT5716) has NDI status of FDA
  - FSSC 22000*
  - ISO 22000*
  - GMP- Good Manufacturing Practice-Food **

References:
2. https://www.first1000days.ie/
4. 1000 days. Disponible en:http://www.thousanddays.org/.
8. ESPGHAN 2017 Prague · Czech Republic.

* Design, production and distribution of oils, herbal extract and probiotics area.
** Design, production and distribution of oils and probiotic area.

Leading biotechnology company focused on providing a wide range of high quality products and services worldwide. At Biosearch Life we develop premium quality bioactive ingredients adapted to the current market requirements and trends, which makes us the perfect partner for the development of health supplements, drugs and functional foods. We provide healthy innovative ingredients based on our solid know-how and technology around three product platforms: