Enteral Nutrition

Your Nutrition Partner to improve Life
**Nutricomp®**

B. Braun’s Enteral Nutrition products (Nutricomp®) are **compliant** with international guidelines, **compatible** with good metabolism and offer a **complete** portfolio of diet feeds and administration devices.

Health organizations¹,²,³,⁴ have made dietary recommendations emphasizing the importance of fish intake, particularly in regards to two kinds of omega-3 fatty acids: **eicosapentaenoic acid (EPA)** and **docosahexaenoic acid (DHA)**. Omega-3 fatty acids are beneficial for persons with good cardiac condition as well as those at risk of, or suffering from, cardiovascular disease.¹

The Panel of the European Food Safety Authority (EFSA) on Dietetic Products, Nutrition and Allergies (NDA) positively evaluated three health claims for EPA and DHA for the general population:⁵
- Intakes of EPA and DHA of about 250 mg per day are required for the maintenance of normal cardiac function
- Intakes of EPA and DHA of 2 g per day as part of a balanced diet are required for the maintenance of normal blood concentrations of triglycerides
- Intakes of EPA and DHA of 3 g per day are required for the maintenance of normal blood pressure

(*Health claim means any claim that states, suggests or implies that a relationship exists between a food category, a food or one of its components and health*)

**Nutricomp® is compliant with international guidelines**

- Nutricomp® Standard and Standard Fibre contain sufficient EPA and DHA for the maintenance of normal cardiac function⁵
- Nutricomp® Energy, Energy Fibre and Standard Fibre D contain enough EPA and DHA for the maintenance of normal blood concentrations of triglycerides and of normal blood pressure⁶

<table>
<thead>
<tr>
<th>Category</th>
<th>Standard diets without fiber</th>
<th>Standard diets with fiber</th>
<th>High energy, high protein, without fiber</th>
<th>High energy, high protein, with fiber</th>
<th>Glucose intolerance special diet, with fiber</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product</td>
<td>Nutricomp® Standard</td>
<td>Nutricomp® Standard Fibre</td>
<td>Nutricomp® Energy</td>
<td>Nutricomp® Energy Fibre</td>
<td>Nutricomp® Standard Fibre D</td>
</tr>
<tr>
<td>EPA (g/100 ml)</td>
<td>0.03</td>
<td>0.04</td>
<td>0.13</td>
<td>0.13</td>
<td>0.11</td>
</tr>
<tr>
<td>DHA (g/100 ml)</td>
<td>0.02</td>
<td>0.03</td>
<td>0.08</td>
<td>0.08</td>
<td>0.07</td>
</tr>
<tr>
<td>TOTAL EPA and DHA (g/100 ml)</td>
<td>0.05</td>
<td>0.07</td>
<td>0.21</td>
<td>0.21</td>
<td>0.18</td>
</tr>
<tr>
<td>TOTAL EPA and DHA (g/day)</td>
<td>1.00*</td>
<td>1.40*</td>
<td>3.15**</td>
<td>3.15**</td>
<td>3.60*</td>
</tr>
</tbody>
</table>

* 2000 ml a day (recommended dose for complete nutrition 1500–2000 ml a day)
** 1500 ml a day (recommended dose for complete nutrition 1000–1500 ml a day)
There is also strong evidence for clinical benefits of EPA and DHA in Clinical Nutrition for the use in various patient groups as they:

- prevent the development of inflammatory disease\(^6\,^7\,^8\)
- preserve immune function\(^6\,^7\)

B. Braun Nutricomp\(^\circledR\) contains more fish oil than other comparable products

### Nutricomp\(^\circledR\)

- Contains the highest content of EPA and DHA compared to competitive products in the same category
- According to EFSA recommendation\(^5\)
  - the EPA and DHA content in a daily dose of Nutricomp\(^\circledR\) Standard, Standard Fibre, Energy Energy Fibre and Standard Fibre D may help to maintain a normal cardiac function
  - the EPA and DHA content in a daily dose of Nutricomp\(^\circledR\) Energy, Energy Fibre and Standard Fibre D may help to maintain normal blood triglycerides and may contribute to a normal blood pressure
**B. Braun’s complete Enteral Nutrition product portfolio**

B. Braun’s leading integrated concept of nutritional care – enteral and parenteral going hand in hand – creates an innovative platform for different kinds of nutritional treatments. This portfolio synergy allows healthcare specialists to choose from a wide product range to offer seamless nutrition care to their patients.

### Oral nutritional supplements (ONS)

<table>
<thead>
<tr>
<th>Product</th>
<th>Composition (1,000 ml)</th>
<th>Packaging</th>
</tr>
</thead>
</table>
| **Nutricomp® Drink** | Energy 1,500 kcal  
Protein (16 kcal%): 60 g  
Fat (30 kcal%): 50 g  
- EPA and DHA: 0.5 g  
Carbohydrates (54 kcal%): 200 g | 200 ml plastic bottle |

### Standard energy tube feeds

<table>
<thead>
<tr>
<th>Product</th>
<th>Composition (1,000 ml)</th>
<th>Packaging</th>
</tr>
</thead>
</table>
| **Nutricomp® Standard**  | Energy 1,000 kcal  
Protein (15 kcal%): 38 g  
Fat (30 kcal%): 33 g  
- EPA and DHA: 0.5 g  
Carbohydrates (55 kcal%): 138 g | 500 ml glass bottles, 500 ml bags, 1,000* ml bags |
| **Nutricomp® Standard Fibre** | Energy 1,040 kcal  
Protein (15 kcal%): 38 g  
Fat (29 kcal%): 33 g  
- EPA and DHA: 0.8 g  
Carbohydrates (53 kcal%): 138 g  
Fiber (3 kcal%): 15 g | 500 ml glass bottles, 500 ml bags, 1,000* ml bags |

### High energy tube feeds

<table>
<thead>
<tr>
<th>Product</th>
<th>Composition (1,000 ml)</th>
<th>Packaging</th>
</tr>
</thead>
</table>
| **Nutricomp® Energy**  | Energy 1,500 kcal  
Protein (20 kcal%): 75 g  
Fat (30 kcal%): 50 g  
- EPA and DHA: 2.1 g  
Carbohydrates (50 kcal%): 188 g | 500 ml glass bottles, 500 ml bags, 1,000* ml bags |
| **Nutricomp® Energy Fibre** | Energy 1,560 kcal  
Protein (20 kcal%): 75 g  
Fat (29 kcal%): 50 g  
- EPA and DHA: 2.1 g  
Carbohydrates (48 kcal%): 188 g  
Fiber (3 kcal%): 20 g | 500 ml glass bottles, 500 ml bags, 1,000* ml bags |

*available soon
# Disease specific tube feeds

<table>
<thead>
<tr>
<th>Product</th>
<th>Composition (1,000 ml)</th>
<th>Packaging</th>
</tr>
</thead>
</table>
| **Nutricomp® Standard Fibre D –** for patients with diabetes mellitus or glucose intolerance | Energy: 1,030 kcal  
Protein (15 kcal\%): 41 g  
Fat (31 kcal\%): 35 g  
- EPA and DHA: 1.8 g  
Carbohydrates (49 kcal\%): 129 g  
Fiber (4 kcal\%): 20 g | • 500 ml glass bottles  
• 500 ml bags  
• 1,000* ml bags |
| **Nutricomp® Peptid –** for patients with maldigestion and malabsorption | Energy: 1,000 kcal  
Protein (14 kcal\%): 38 g  
Fat (12 kcal\%): 11 g  
Carbohydrates (74 kcal\%): 188 g | • 500 ml glass bottles  
• 500 ml bags |
| **Nutricomp® Hepa –** for patients with impaired liver function | Energy: 1,300 kcal  
Protein (12 kcal\%): 40 g  
- BCAA: 15.9 g  
Fat (40 kcal\%): 58 g  
Carbohydrates (48 kcal\%): 155 g | • 500 ml glass bottles |
| **Nutricomp® MCT –** for patients with impaired lipid digestion | Energy: 1,300 kcal  
Protein (17 kcal\%): 56 g  
- MCT: 59.2 %  
Fat (30 kcal\%): 44 g  
Carbohydrates (53 kcal\%): 171 g | • 500 ml glass bottles  
• 500 ml bags |
| **Nutricomp® Intensiv –** for patients with posttraumatic metabolism, respiratory failure | Energy: 1,300 kcal  
Protein (20 kcal\%): 65 g  
Fat (40 kcal\%): 58 g  
Carbohydrates (40 kcal\%): 130 g | • 500 ml glass bottles |
| **Nutricomp® Immun –** for patients with impaired immune functions | Energy: 1,360 kcal  
Protein (20 kcal\%): 66.8 g  
- Glu/Gln: 20.1 g  
Fat (24 kcal\%): 37 g  
- EPA and DHA: 0.68 g  
Carbohydrates (54 kcal\%): 183.4 g  
Fiber (2 kcal\%): 13.4 g | • 500 ml glass bottles |
| **Nutricomp® Soy –** for patients with Lactose intolerance | Energy: 1,000 kcal  
Protein (15 kcal\%): 39 g  
Fat (31 kcal\%): 35 g  
- EPA and DHA: 0.5 g  
Carbohydrates (54 kcal\%): 133 g | • 500 ml bags |
| **Nutricomp® Soy Fibre –** for patients with Lactose intolerance and need of Fiber | Energy: 1,000 kcal  
Protein (16 kcal\%): 39 g  
Fat (30 kcal\%): 35 g  
- EPA and DHA: 0.5 g  
Carbohydrates (52 kcal\%): 133 g  
Fiber (2 kcal\%): 15 g | • 500 ml bags |

*available soon

**Enteral Nutrition:**  
Compliant, Compatible, Complete.
## Applications and Devices

### B. Braun’s **complete** Enteral Nutrition product portfolio

#### Enteroport® plus EN pump:
- Mobile pump (450 g)
- Application rate: 1 - 400 ml/h
- Bolus application
- Flow rate accuracy +/- 10%

<table>
<thead>
<tr>
<th>Product</th>
<th>Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enteroport® plus 230 V</td>
<td>8710350</td>
</tr>
<tr>
<td>(includes power supply and pole clamp)</td>
<td></td>
</tr>
<tr>
<td>Support stand</td>
<td>8721670</td>
</tr>
<tr>
<td>Pole clamp</td>
<td>8721061</td>
</tr>
</tbody>
</table>

#### Enteroport® plus Set application sets:
- DEHP-free
- Y-adapter for Luer syringes
- Female Luer-Lock adapter with scaled cone adapter for connection to tubes with Luer, Luer-Lock and Funnel connector
- Roller clamp

<table>
<thead>
<tr>
<th>Product</th>
<th>Additional Characteristics</th>
<th>Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enteroport® plus Set 500</td>
<td>With 500, 1,000 and 2,500 ml container with scale</td>
<td>8721726</td>
</tr>
<tr>
<td>Enteroport® plus Set 1000</td>
<td></td>
<td>8721734</td>
</tr>
<tr>
<td>Enteroport® plus Set 2500</td>
<td></td>
<td>8721742</td>
</tr>
<tr>
<td>Enteroport® plus Set FL</td>
<td>With connection to crown cork bottles</td>
<td>8721688</td>
</tr>
<tr>
<td>Enteroport® plus Set Multispike</td>
<td>With connection to bags systems</td>
<td>8721750</td>
</tr>
<tr>
<td>Enteroport® plus Set Universal Adapter</td>
<td>With connection to all of the above including wide-neck bottles</td>
<td>8721744</td>
</tr>
</tbody>
</table>

#### Nutrifix® gravity application sets:
- DEHP free
- Y-adapter for Luer syringes
- Female Luer-Lock adapter with scaled cone adapter for connection to tubes with Luer, Luer-Lock and Funnel connector
- Roller clamp

<table>
<thead>
<tr>
<th>Product</th>
<th>Additional Characteristics</th>
<th>Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nutrifix® 1000</td>
<td>With 1,000 ml container with scale</td>
<td>9240677</td>
</tr>
<tr>
<td>Nutrifix® 2500</td>
<td>With 2,500 ml container with scale</td>
<td>9240685</td>
</tr>
<tr>
<td>Nutrifix® FL</td>
<td>With connection to crown cork bottles</td>
<td>9240669</td>
</tr>
<tr>
<td>Nutrifix® Multispike</td>
<td>With connection to bags systems</td>
<td>9240632</td>
</tr>
<tr>
<td>Nutrifix® Universal Adapter</td>
<td>With connection to all of the above including wide-neck bottles</td>
<td>9240621</td>
</tr>
</tbody>
</table>
# Enteral Nutrition: Compliant, Compatible, Complete.

**Nutritub® Nasal-Tubes:**
- Made from polyurethane (PUR)
- Flexible, no kinking
- With radiopaque stripes and length markings to allow easy and safe placement
- With connectors (Luer-Lock or Funnel) that allow connection with any application system
- Some Nutritub® tubes come with stylets and may have weighted ends to ensure intestinal placement

<table>
<thead>
<tr>
<th>Product</th>
<th>CH</th>
<th>Length (cm)</th>
<th>Connector</th>
<th>Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nutritub® Paed</td>
<td>6</td>
<td>60</td>
<td>Luer-Lock</td>
<td>9246509</td>
</tr>
<tr>
<td>Nutritub® Gastral</td>
<td>8</td>
<td>100</td>
<td>Luer-Lock</td>
<td>9246517</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td></td>
<td>Luer-Lock with stylet</td>
<td>9246525</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td></td>
<td>Funnel with stylet</td>
<td>9246533</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td></td>
<td>Funnel with stylet</td>
<td>9246541</td>
</tr>
<tr>
<td>Nutritub® Intestinal</td>
<td>8</td>
<td>120</td>
<td>Funnel with stylet</td>
<td>9246576</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td></td>
<td>Funnel with stylet</td>
<td>9246584</td>
</tr>
</tbody>
</table>

**Duodenal tubes:**
- DEHP free
- Single and sterile packaging
- For aspiration of intestinal fluid or for administration of Enteral Nutrition
- With 4 lateral eyes, radiopaque stripes and rounded end

<table>
<thead>
<tr>
<th>Product</th>
<th>CH</th>
<th>Length (cm)</th>
<th>Connector</th>
<th>Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duodenal Tube</td>
<td>14</td>
<td></td>
<td>Funnel</td>
<td>4371143</td>
</tr>
<tr>
<td></td>
<td>16</td>
<td></td>
<td>Funnel</td>
<td>4371160</td>
</tr>
<tr>
<td></td>
<td>18</td>
<td></td>
<td>Funnel</td>
<td>4371186</td>
</tr>
</tbody>
</table>

**Nasal-Tubes:**
- Made from PVC
- Single and sterile packaging
- With 2 or 4 lateral eyes; with or without stylet; radiopaque stripe; closed and rounded end

<table>
<thead>
<tr>
<th>Product</th>
<th>CH</th>
<th>Length (cm)</th>
<th>Connector</th>
<th>Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gastric tube</td>
<td>4.5</td>
<td>38</td>
<td>Luer</td>
<td>4396049</td>
</tr>
<tr>
<td></td>
<td>4.5</td>
<td>50</td>
<td>Luer</td>
<td>4396057</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>50</td>
<td>Luer</td>
<td>4396154</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td>50</td>
<td>Luer</td>
<td>4396251</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td>100</td>
<td>Luer</td>
<td>4396308</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>50</td>
<td>Luer</td>
<td>4396359</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>100</td>
<td>Luer</td>
<td>4396405</td>
</tr>
<tr>
<td></td>
<td>16</td>
<td>80</td>
<td>Funnel with stylet</td>
<td>4372166</td>
</tr>
</tbody>
</table>
5. EFSA Journal 2010; 8(10): 1796 [32 pp.]