PRODUCTS WITH PURPOSE

Nutraceuticals
**All-Q® / Coenzyme Q10**

### ADDITIONAL INFORMATION | Coenzyme Q10 (All-Q®)

**ROLE:**

Coenzyme Q10 (CoQ10) is an antioxidant involved in energy metabolism in all cells in the body. Studies in individuals with cardiovascular disease, in particular those with heart failure and hypertension, report the most consistent improvement in symptoms when CoQ10 is taken as a supplement.

**FOOD SOURCES:**

Beef, chicken, pork, herring, and trout; lesser amounts in some vegetables such as broccoli and cauliflower.

**Fabuless® / Specialty emulsion for satiety** – Naturally sourced

### ADDITIONAL INFORMATION | Emulsion of palm and oat oil (Fabuless®)

**ROLE:**

Fabuless® is a patent-protected combination of palm and oat oil (both naturally occurring lipids) that is formulated in an emulsion. Its microstructure prevents early digestion and triggers an “appetite satisfied” signal to the brain, therefore helping people to manage their calorie intake. Fabuless® can be incorporated in foods or marketed as a weight management supplement.
**Fruitflow® / Water-soluble tomato concentrate** – Naturally sourced

<table>
<thead>
<tr>
<th>Product and description</th>
<th>Cert.</th>
<th>Pack size (kg)</th>
<th>Product code</th>
<th>Form</th>
<th>Main application</th>
<th>Specific application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fruitflow® I Liquid (syrup), water soluble</td>
<td>●</td>
<td>20</td>
<td>50 1272 4.202</td>
<td>Liquid</td>
<td>Dietary Supplements</td>
<td>Vegetarian</td>
</tr>
<tr>
<td></td>
<td></td>
<td>215</td>
<td>50 1272 4.143</td>
<td>Powder</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fruitflow® II SD Dry powder, water soluble</td>
<td>●</td>
<td>1</td>
<td>50 1511 8.268</td>
<td>Liquid</td>
<td>Dietary Supplements</td>
<td>Naturally Sourced</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5</td>
<td>50 1511 8.304</td>
<td>Powder</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

_Fruitflow® is a trademark used under licence by DSM.

**ADDITIONAL INFORMATION | Water-soluble tomato concentrate (Fruitflow®)**

**ROLE:**
Fruitflow® is a water-soluble tomato-based extract. This breakthrough ingredient helps maintain normal platelet aggregation, which contributes to healthy blood flow. In human trials, consumption of Fruitflow® has been proven to reduce platelet aggregation in 97% of subjects. The acute effect takes place within 1.5 hours of consumption and lasts for 12 to 18 hours. When taken regularly on a once per day basis, the effect is continuous.

**FOOD SOURCE:**
Tomatoes.

**EU HEALTH CLAIM:**
Article 13.5: Fruitflow® helps maintain normal platelet aggregation, which contributes to healthy blood flow.

**geniVida® / High-purity genistein**

<table>
<thead>
<tr>
<th>Product and description</th>
<th>Cert.</th>
<th>Pack size (kg)</th>
<th>Product code</th>
<th>Form</th>
<th>Main application</th>
<th>Specific application</th>
</tr>
</thead>
<tbody>
<tr>
<td>geniVida® Crystalline powder, minimum 98.5% genistein</td>
<td>●</td>
<td>1</td>
<td>50 1632 4.268</td>
<td>Liquid</td>
<td>Dietary Supplements</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>50 1632 4.304</td>
<td>Powder</td>
<td></td>
<td></td>
</tr>
<tr>
<td>geniVida® TG Tablet grade</td>
<td>●</td>
<td>1</td>
<td>50 1624 2.268</td>
<td>Liquid</td>
<td>Dietary Supplements</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>50 1624 2.304</td>
<td>Powder</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ADDITIONAL INFORMATION | Genistein (geniVida®)**

**ROLE:**
Genistein is an isoflavone found in soybeans, soy flour, soy milk, soy protein concentrate (water washed), soy protein isolates, that has the ability to bind selectively to the estrogen alpha and beta receptors and modulate gene expression. geniVida® can aid in restoring the balance between the bone-building osteoblasts and the bone-dissolving osteoclasts and help to maintain healthy bone density in postmenopausal women. Genistein has also been clinically proven to reduce menopausal symptoms, including hot flashes.

**FOOD SOURCES:**
Soybeans, soy flour, soy milk, soy protein concentrate (water washed), soy protein isolates, miso, tempeh, tofu and foods made with these ingredients.

---

*Pharma registered OTC (Over the Counter) / Rx (Prescription). The applicability of the portfolio for pharmaceutical application is subject to local approvals. Please check the status with local DSM Regulatory Affairs team in your closest office.*
## Metafolin® / The naturally-occurring predominant form of folate

<table>
<thead>
<tr>
<th>Product and description</th>
<th>Cert.</th>
<th>Pack size (kg)</th>
<th>Product code</th>
<th>Form</th>
<th>Main application</th>
<th>Specific application</th>
</tr>
</thead>
<tbody>
<tr>
<td>METAFOLIN®</td>
<td>•</td>
<td>1</td>
<td>50 1557 1.270</td>
<td>Liquid</td>
<td>OTC/Rx*</td>
<td></td>
</tr>
<tr>
<td></td>
<td>•</td>
<td>0.1</td>
<td>50 1557 1.074</td>
<td>Powder</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**METAFOLIN®** is a registered trademark of Merck KGaA, Darmstadt, Germany.

### ADDITIONAL INFORMATION | The biologically active form of folate (Metafolin®)

**ROLE:**

Metafolin® is the biologically active form of folate as it is found in nature. Genetic variation impact on folate metabolism. Usage of L-5-MTHF (Metafolin®) generates independency of genetic variants of enzymes because it’s is a readily bioavailable folate vitamer, directly usable by the body. Metafolin® is directly involved in lowering homocysteine blood levels, apparently not masking vitamin B12-deficiency and presents no risk of an accumulation of unmodified folic acid in the body.

**FOOD SOURCES:**

Sprouted legumes (mung bean, lentil, chickpea, etc.), spinach, romaine lettuce, cauliflower, asparagus, broccoli, kale, cabbage, strawberries and other berries, oranges, grapefruit, and their juices, fermented foods (kefir, sauerkraut, etc.).

**EU HEALTH CLAIMS:**

*Metafolin® contributes to normal blood formation.*

*Metafolin® contributes to normal homocysteine metabolism.*

*Metafolin® contributes to a normal function of the immune system.*

*Metafolin® contributes to normal maternal tissue growth during pregnancy.*

*Metafolin® contributes to normal psychological function.*

*Metafolin® contributes to normal cell division.*

*Metafolin® contributes to the reduction of tiredness and fatigue.*

*Metafolin® contributes to normal amino acid synthesis.*
**OatWell® / Oat beta-glucan – Naturally sourced**

<table>
<thead>
<tr>
<th>Product and description</th>
<th>Cert.</th>
<th>Pack size (kg)</th>
<th>Product code</th>
<th>Form</th>
<th>Main application</th>
<th>Specific application</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Kosher</strong></td>
<td><strong>Halal</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OatWell® 14</td>
<td>Dry powder, oat bran with 13–15% beta-glucan</td>
<td>●</td>
<td>18</td>
<td>50 1509 7.289</td>
<td>Liquid</td>
<td>OTC/Rx*</td>
</tr>
<tr>
<td>OatWell® 22</td>
<td>Dry powder, oat bran with 21–23% beta-glucan</td>
<td>●</td>
<td>18</td>
<td>50 1509 9.289</td>
<td>Powder</td>
<td>Dietary Supplements</td>
</tr>
<tr>
<td>OatWell® 28</td>
<td>Dry powder, oat bran with 27–29% beta-glucan</td>
<td>●</td>
<td>18</td>
<td>50 1510 12.89</td>
<td>Liquid</td>
<td>Dietary Supplements</td>
</tr>
<tr>
<td>OatWell® 14 XF</td>
<td>Fine powder, oat bran with 13–15% beta-glucan</td>
<td>●</td>
<td>18</td>
<td>50 1509 8.289</td>
<td>Liquid</td>
<td>Dietary Supplements</td>
</tr>
<tr>
<td>OatWell® 22 XF</td>
<td>Fine powder, oat bran with 21–23% beta-glucan</td>
<td>●</td>
<td>18</td>
<td>50 1510 0.289</td>
<td>Liquid</td>
<td>Dietary Supplements</td>
</tr>
<tr>
<td>OatWell® 28 XF</td>
<td>Fine powder, oat bran with 27–29% beta-glucan</td>
<td>●</td>
<td>18</td>
<td>50 1510 2.289</td>
<td>Liquid</td>
<td>Dietary Supplements</td>
</tr>
</tbody>
</table>

**US FDA 2018 label: The fiber in OatWell® meets the definition for Dietary Fiber as described in 21 CFR §101.81(c)(2)(ii).**

**EU HEALTH CLAIMS:**
- Article 14: Oat beta-glucan lowers blood cholesterol levels.
- High cholesterol is a risk factor in the development of coronary heart disease.
- Oat beta-glucan reduces the glycemic response.
- Oat beta-glucan and insoluble fibres from oats promote gut health via the improvement of bowel function.

**US HEALTH CLAIMS:**
- 21 CFR 101.81: Soluble fibre from foods such as oat bran OatWell® beta-glucan, as part of a diet low in saturated fat and cholesterol, may reduce the risk of heart disease/ coronary heart disease.
- A serving of OatWell® beta-glucan supplies 0.75 g/ RACC of the necessary 3 g/ day of beta-glucan soluble fibre to have this effect.

**ADDITIONAL INFORMATION | Oat beta-glucan (OatWell®)**

**ROLE:**
Bioactive oat beta-glucan has been proven to reduce blood cholesterol levels, to reduce glycemic response and to promote gut health. The beta-glucans found in oats are soluble fibers that occur naturally in the grain. Oat beta-glucan (1→3 & 1→4 linked) constitutes the main component of the soluble dietary fiber content of oats. The process used to produce OatWell® oat bran specifically maintains the functional attributes of the beta-glucan, namely the development of viscosity in the gut.

**FOOD SOURCE:**
Oat.

**EU HEALTH CLAIMS:**
- Article 14: Oat beta-glucan lowers blood cholesterol levels.
- High cholesterol is a risk factor in the development of coronary heart disease.
- Oat beta-glucan reduces the glycemic response.
- Oat beta-glucan and insoluble fibres from oats promote gut health via the improvement of bowel function.

**US HEALTH CLAIMS:**
- 21 CFR 101.81: Soluble fibre from foods such as oat bran OatWell® beta-glucan, as part of a diet low in saturated fat and cholesterol, may reduce the risk of heart disease/ coronary heart disease.
- A serving of OatWell® beta-glucan supplies 0.75 g/ RACC of the necessary 3 g/ day of beta-glucan soluble fibre to have this effect.
**PeptoPro® / Dairy-based peptides** – Naturally sourced

<table>
<thead>
<tr>
<th>Product and description</th>
<th>Cert.</th>
<th>Pack size (kg)</th>
<th>Product code</th>
<th>Form</th>
<th>Main application</th>
<th>Specific application</th>
</tr>
</thead>
<tbody>
<tr>
<td>PeptoPro® Powder</td>
<td>✔</td>
<td>15</td>
<td>50 0774 3.201</td>
<td>Liquid</td>
<td>Pharma reg. OTC/Rx*</td>
<td>Vegetarian</td>
</tr>
</tbody>
</table>

**ADDITIONAL INFORMATION | Dairy-based peptides (PeptoPro®)**

**ROLE:**
PeptoPro® is a highly hydrolyzed enzymatic digest of casein manufactured utilizing a proprietary mix of enzymes to provide a high quality source of peptides with excellent taste. High levels of di- and tripeptides in combination with a low level of free amino acids provide PeptoPro® with excellent nutritional value, instant solubility and low levels of bitterness. Human studies have proven that PeptoPro® plays an important role in sports applications such as endurance, performance and muscle recovery. PeptoPro® qualifies as a superior protein source to cover daily needs of protein.

**FOOD SOURCES:**
Dairy, specialized hydrolysates.

**EU HEALTH CLAIMS:**
*Protein contributes to a growth in muscle mass.*
*Protein contributes to the maintenance of muscle mass.*

---

**Reducose® / White Mulberry leaf extract** – Naturally sourced – Water extracted

<table>
<thead>
<tr>
<th>Product and description</th>
<th>Cert.</th>
<th>Pack size (kg)</th>
<th>Product code</th>
<th>Form</th>
<th>Main application</th>
<th>Specific application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reducedose® 1%</td>
<td>✔</td>
<td>25</td>
<td>50 1639 4.705</td>
<td>Liquid</td>
<td>Pharma reg. OTC/Rx*</td>
<td>Vegetarian</td>
</tr>
<tr>
<td>Reducedose® 5%</td>
<td>✔</td>
<td>5</td>
<td>50 1639 5.192</td>
<td>Liquid</td>
<td>Pharma reg. OTC/Rx*</td>
<td>Vegetarian</td>
</tr>
<tr>
<td></td>
<td>✔</td>
<td>25</td>
<td>50 1639 5.705</td>
<td>Liquid</td>
<td>Pharma reg. OTC/Rx*</td>
<td>Vegetarian</td>
</tr>
</tbody>
</table>

Reducose® is a trademark of Phynova Group Ltd.

**ADDITIONAL INFORMATION | White Mulberry leaf extract (Reducose®)**

**ROLE:**
Reducose® is a proprietary water extract of white Mulberry leaves (*Morus alba*). White Mulberry leaves are normal food ingredient widely used across Asia for blood glucose control. Reducedose, as an alpha-glucosidase enzyme inhibitor, promotes healthy blood glucose by blocking the digestion of sugar and carbohydrate by up to 40%. Clinical trials have proven that Reducedose® is safe and side-effect free, and is effective at reducing the glycemic index of foods, reducing blood glucose after eating carbohydrate rich meals, and promoting healthy insulin responses.

**FOOD SOURCES:**
White Mulberry leaves across Asia

Reducose® is a trademark of Phynova Group Ltd.
resVida® / High-purity trans-resveratrol

<table>
<thead>
<tr>
<th>Product and description</th>
<th>Cert.</th>
<th>Pack size (kg)</th>
<th>Product code</th>
<th>Form</th>
<th>Main application</th>
<th>Specific application</th>
</tr>
</thead>
<tbody>
<tr>
<td>resVida®</td>
<td>Kosher</td>
<td>1</td>
<td>5, 20</td>
<td>50 1439 5.268 50 1439 5.304 50 1439 5.344</td>
<td>Liquid</td>
<td>Dietary Supplements</td>
</tr>
</tbody>
</table>

Kosher Halal

FOOD SOURCES:
Wine, grapes, peanuts and berries.

ADDITIONAL INFORMATION | Trans-resveratrol (resVida®)

ROLE:
Resveratrol is a polyphenol produced by plants to protect them from environmental stress. It has antioxidant activity and is most known as the component in red wine that may confer heart health benefits in the French population despite a high fat intake, i.e. the French Paradox. Recent studies demonstrate resveratrol mimics the effect of caloric restriction, the only known intervention to extend lifespan in mammals. Accordingly, resveratrol has been shown not only to extend the lifespan of aged mice on a high fat diet, but also to preserve the health of aging mice through maintenance of cardiac function, muscle function and blood sugar control.
### Kosher and Halal certification

Typically our products have Kosher (OU) and the main Halal certifiers (IFANCA, HFCE, MUI). We occasionally use other certification organizations as well, but these are typically for special cases or back-up. Information about the other available certificates may be available upon request.

### Specific Product Information

Product Data Sheets and Safety Data Sheets are available for all products listed in this catalogue. They contain information on product description and identification, specification, and stability and storage conditions.

Some of the listed products are used either as vitamins (nutrients / Active Pharmaceutical Ingredients / excipients) or as food additives for technological purposes; some of them serve both purposes, and are authorized in most countries. However, there are local regulations according to which their use may be restricted. It is therefore advisable to consult the corresponding regulation.

For further information on our products (local availability and prices), please contact the DSM Nutritional Products’ office nearest to you or one of the addresses listed on the back cover.

### RSPO certification

DSM made a commitment in 2013 to source all palm oil and palm oil derivatives in a sustainable manner by either using GreenPalm certificates under “Book & Claim” scheme or Mass Balance certification.
With our broad service offerings, customers get an integrated partner, from concept to consumer.

**PRODUCTS**
- Active pharmaceutical ingredients (APIs)
- Carotenoids
- Digestive enzymes
- Human milk oligosaccharides (HMOs)
- Hydrocolloids
- Nutraceuticals
- Nutritional lipids
- Probiotics and prebiotics
- Vitamins

**CUSTOMIZED SOLUTIONS**
- Coloration solutions
- Market-ready solutions
- Personalized nutrition solutions
- Premix solutions
- Shelf-life solutions

**EXPERT SERVICES**
- Application and technical services
- Innovation and R&D services
- Insights and marketing services
- Regulatory and quality services
- Scientific services

Our products can make yours stronger. Learn how at [DSM-Products.com](http://DSM-Products.com).