Glucevia™ significantly reduces post-prandial blood glucose both immediately and following long term administration. Glucevia™ and its patented active compounds, Nuzhenide and GI3, increase the rate of absorption of glucose into the liver and muscle cells and protect the liver on a long-term basis.

Unlike synthetic drugs for glucose control, Glucevia™ is safe and does not cause any adverse side effects. Glucevia™ helps to balance blood glucose levels and supports healthy liver function.

<table>
<thead>
<tr>
<th>Commercial name</th>
<th>Glucevia™ <a href="http://www.glucevia.com">www.glucevia.com</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete name</td>
<td>Fraxinus excelsior seed/fruit extract</td>
</tr>
<tr>
<td>Appearance</td>
<td>Light brown to brown</td>
</tr>
<tr>
<td>Standardization</td>
<td>10% Nuzhenide and GI3</td>
</tr>
<tr>
<td>Scientific results</td>
<td>1,000 mg of Glucevia™ has been scientifically proven to:</td>
</tr>
<tr>
<td></td>
<td>- reduce post-prandial blood glucose</td>
</tr>
<tr>
<td></td>
<td>- maintain a healthy liver</td>
</tr>
<tr>
<td>Lifestyle</td>
<td>Glucose management</td>
</tr>
<tr>
<td>Claims</td>
<td>Contributes to healthy lifestyle by improving blood glucose regulation as part of a balanced diet</td>
</tr>
<tr>
<td>Recommended dosage</td>
<td>1,000 mg/day, in 3 doses to be taken before meals</td>
</tr>
<tr>
<td>Safety and quality</td>
<td>No side effects have been reported in clinical studies</td>
</tr>
<tr>
<td></td>
<td>No risks have been identified in extensive toxicological tests</td>
</tr>
<tr>
<td></td>
<td>Glucevia™ is guaranteed to be made from 100% Fraxinus excelsior and in compliance with current standards regarding the absence of GMOs and allergens as well as acceptable levels of heavy metals and pesticide residues. Before sale of the product, it must be ensured that the product meets all local legal requirements.</td>
</tr>
</tbody>
</table>
Naturally improve glucose regulation

Market opportunities

Sugar consumption has increased dramatically over the last two centuries. In 1822, Americans consumed the amount of sugar found in a 12-ounce soda every 5 days, but today consume this same amount every 7 hours. While sugars and their derivatives are essential to human nutrition and help to maintain physiological functions, it has been widely demonstrated that excess sugar in our diet is unhealthy and that elevated blood sugar levels can lead to health issues. Managing blood glucose levels is therefore recommended by health authorities worldwide.

With Glucevia™, Naturex offers you an opportunity to provide a new and natural solution to people who want to maintain healthy blood glucose levels.

Glucevia™: a new discovery

Naturex has developed Glucevia™, an innovative extract from the seeds/fruits of Fraxinus excelsior. Fraxinus is a tree native to parts of Europe and Asia and is usually referred to as “common ash” or “European ash.” The effect of Fraxinus on blood sugar control had not been widely explored until Naturex conducted clinical trials to demonstrate its benefits. Historically, Fraxinus was largely limited to the Mediterranean Basin, where local populations traditionally used it in food and infusions, and for its hypoglycemic effect.

Scientific evidence

1,000 mg of Glucevia™ per day helps to safely balance blood sugar levels:
- reduces post-prandial blood glucose by acting on the rate of absorption of glucose into the liver and muscle cells(2,3)
- has an effect on the liver and improves liver health on a long-term basis(4)
- is safe and does not cause any adverse effects(5)

Glucose AUC (mg.min/dL)

Blood glucose (mg/dL)

% fat in the liver

Glucevia™ immediately reduces the incremental glucose Area Under the Curve (AUC) by 8.8% in healthy volunteers.
A dose of 1,000 mg of Glucevia™ has an immediate effect on postprandial blood glucose concentration,(2) Healthy, volunteers received 1,000 mg of Glucevia™ per day for 3 weeks. Incremental glucose AUC was significantly reduced by 28.2% versus baseline. These results demonstrate that a daily dose of Glucevia™ helps to manage glycemia on a long-term basis.(6)

Mechanism of action may involve liver metabolism of glucose

Pre-clinical in vivo studies show that Glucevia™ significantly reduces fatty liver in diabetic or obese animals.

Glucevia™ in long term with no side effects

The liver remains in a healthier state and is better able to perform its daily functions(5). This physiological effect may be beneficial to blood glucose regulation in the long-term.

1. Z. C. Vulet et al., Isolated bark extract of Fraxinus excelsior and therapeutic applications, Phytomedicine, 20(2013) 815-819
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Market opportunities
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Glucevia™ is the only available extract derived exclusively from the seeds/fruits of Fraxinus excelsior. Fraxinus is a tree native to parts of Europe and Asia and is usually referred to as “common ash” or “European ash.” The effect of Fraxinus on blood sugar control had not been widely explored until Naturex conducted clinical trials to demonstrate its benefits. Historically, Fraxinus was largely limited to the Mediterranean Basin, where local populations traditionally used it in food and infusions, and for its hypoglycemic effect.

Scientific evidence
1,000 mg of Glucevia™ per day helps to safely balance blood sugar levels:
- reduces post-prandial blood glucose by acting on the rate of absorption of glucose into the liver and muscle cells[13,14]
- has an effect on the liver and improves liver health on a long-term basis[15]
- is safe and does not cause any adverse effects[16]

Glucevia™ immediately reduces the incremental glucose Area Under the Curve (AUC) by 8.8% in healthy volunteers. A dose of 1,000 mg of Glucevia™ has an immediate effect on postprandial blood glucose concentration.[16]

Mechanism of action may involve liver metabolism of glucose
Pre-clinical in vivo studies show that Glucevia™ significantly reduces fatty liver in diabetic or obese animals. Healthy, volunteers received 1,000 mg of Glucevia™ per day for 3 weeks. Incremental glucose AUC was significantly reduced by 48.2% versus baseline. These results demonstrate that a daily dose of Glucevia™ helps to manage glycemia on a long-term basis.[16]

The claims have not been evaluated by regulatory authorities. This product is not intended to diagnose, treat, cure, or prevent any disease.
Glucevia™ significantly reduces post-prandial blood glucose both immediately and following long term administration. Glucevia™ and its patented active compounds, Nuzhenide and GI3, increase the rate of absorption of glucose into the liver and muscle cells and protect the liver on a long-term basis.

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### Lifestyle
Glucose management

### Claims
Contributes to healthy lifestyle by improving blood glucose regulation as part of a balanced diet

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