Deglycyrrhizinated licorice (DGL) provides effective nutritional support for the mucosal lining of the stomach and intestines.* DGL supports the production of mucin, a compound that coats and protects the digestive tract to provide relief for occasional stomach discomfort.* To promote a healthy microbial defense, the stomach must sustain a healthy pH and epithelial tissues to support against acidic conditions. Digestion is often compromised due to undigested food particles, spicy or fried foods, stress, and aging. Licorice root is a commonly used herb and staple within Traditional Chinese culture.

**Effective Gastrointestinal Support - GutGard® Double Blind Clinical Trials**

<table>
<thead>
<tr>
<th>Author</th>
<th>Design</th>
<th>N</th>
<th>Duration</th>
<th>Dose</th>
<th>Outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raveendra et al¹</td>
<td>Randomized double blind control trial</td>
<td>50</td>
<td>30 days</td>
<td>75 mg GutGard or placebo</td>
<td>Compared to placebo, those receiving GutGard had a statistically significant effect ($P \leq 0.05$), on both day 15 and day 30. GutGard was well tolerated for duration of study and shown to support digestive comfort.</td>
</tr>
<tr>
<td>Puram et al²</td>
<td>Randomized double blind control trial</td>
<td>100</td>
<td>60 days</td>
<td>150 mg GutGard or placebo</td>
<td>Both groups completed 13c-urea breath tests and stool antigen tests at days 0, 30, and 60. GutGard was given at a single oral dose of 150mg. On day 60, the GutGard group 24 subjects (48%) had a negative breath test and 28 subjects (56%) receiving GutGard had a negative stool test. The findings suggested GutGard supports a healthy microbial balance in the stomach.</td>
</tr>
</tbody>
</table>

Rhizinate™, now featuring GutGard®, is available in two formulas: Rhizinate Original and Rhizinate Fructose Free. Each formula is designed to meet your patients’ individual needs.

- Features GutGard®, the polyphenic plant compound, flavonoids
- Chewable tablets which allow DGL to mix with saliva for faster action on the gastric mucosa*
- Taken after food rather than before.
- Contains less than 1% glycyrrhizin. Glycyrrhizin may elevate blood pressure in some individuals.*
- Supports digestion and helping soothe and relieve occasional stomach discomfort.*
- Added glycine to keep stomach lining strong*

*These statements have not been evaluated by the Food and Drug Administration. These products are not intended to diagnose, treat, cure, or prevent any disease.
RHIZINATE™

How It Works

Licorice (Glycyrrhiza sp.) is one of the oldest medicinal plants in the world. While its origins are in the Mediterranean, Middle East, and central Asia, it has been cultivated virtually everywhere from Spain to China for centuries. Whole root contains glycyrrhizic acid, a component with numerous beneficial properties that has been used to support immunity and liver function for many years. In spite of glycyrrhizic acid’s various advantages, consumption of this component in large quantities over an extended period of time has been shown to lead to high blood pressure. Because the benefits of licorice root on the stomach lining are not dependent upon glycyrrhizic acid content, Rhizinate’s ingredients omit this component (through an extraction process) to facilitate long-term use.

Deglycyrrhizinated Licorice

Rhizinate, utilizing the extract of Glycyrrhiza glabra, GutGard®, helps support healthy mucosal lining by stimulating the stomach’s natural protective factors. The stomach and upper sections of the small intestine are lined with thin layers of tissue called the mucosa. This lining must function in the stomach’s extreme acid environment of pH levels ranging around 2.0 to 3.0.

Unlike antacids, DGL does not suppress gastric acid, which is needed for the absorption of calcium and for the maintenance of healthy gut flora. Rather, it protects the stomach lining by stimulating increased mucous production and blood supply to the mucosa. With 30 years of use and scientific and clinical studies showing gastrointestinal support, DGL has been recommended for both short-term and long-term use.

Additional Benefits of Licorice:

- Licorice contains flavonoids and isoflavonoids.
- Licorice has been shown to support a healthy cytokine response, healthy immune response, cellular metabolism and liver and heart health.

Glycine

Glycine is a stable amino acid that has the ability to support healthy mucosal lining of the stomach. It is also a glutathione precursor.

*THESE STATEMENTS HAVE NOT BEEN EVALUATED BY THE FOOD AND DRUG ADMINISTRATION. THESE PRODUCTS ARE NOT INTENDED TO DIAGNOSE, TREAT, CURE, OR PREVENT ANY DISEASE.
RHIZINATE™ ORIGINAL

Rhizinate™ Original is a unique extract of deglycyrrhizinated licorice (DGL) formulated to provide soothing, digestive relief* in a delicious chewable licorice flavor.

Supplement Facts

<table>
<thead>
<tr>
<th>Amount per 3 chewable tablets</th>
<th>%DV*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calories</td>
<td>10</td>
</tr>
<tr>
<td>Total Carbohydrate</td>
<td>2 g</td>
</tr>
<tr>
<td>Total Sugar</td>
<td>1 g</td>
</tr>
<tr>
<td>Includes 1 g Added Sugar</td>
<td>%</td>
</tr>
</tbody>
</table>

Deglycyrrhizinated Licorice (DGL) (Glycyrrhiza glabra) Root Extract

Glycine 150 mg **

*Percent Daily Values (DV) are based on a 2,000 calorie diet.
**Daily Value not established.

Other ingredients: fructose, mannitol, sorbitol, stearic acid, natural flavor, cellulose, silicon dioxide, and magnesium stearate.

Recommendations: Chew 3 tablets after food in the morning. Chew 3 tablets after food in the evening or as recommended by your healthcare professional.

If pregnant, nursing, or taking prescription drugs, consult your healthcare professional prior to use.

Contains No: Salt, yeast, wheat, gluten, soy, dairy products, artificial coloring, flavoring, preservatives, or ingredients of animal origin.

Integrative Therapeutics 100 CT - 79001

RHIZINATE™ FRUCTOSE FREE

Rhizinate™ Fructose-Free is DGL formulated to provide the same relief from occasional stomach discomfort as Rhizinate Original flavor, but without the fructose.*

Supplement Facts

<table>
<thead>
<tr>
<th>Amount per 3 chewable tablets</th>
<th>%DV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calories</td>
<td>5</td>
</tr>
<tr>
<td>Total Carbohydrate</td>
<td>3 g</td>
</tr>
<tr>
<td>Total Sugar</td>
<td>0 g</td>
</tr>
<tr>
<td>Includes 0 g Added Sugars</td>
<td>%</td>
</tr>
<tr>
<td>Sugar Alcohol</td>
<td>2 g</td>
</tr>
</tbody>
</table>

Deglycyrrhizinated Licorice (DGL) (Glycyrrhiza glabra) Root Extract

Glycine 150 mg **

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Integrative Therapeutics 100 CT - 79021
References


