The liver is a versatile organ and it is responsible for many functions such as bile and its components (bilirubin, bile acids, cholesterol etc.) synthesis and excretion, it is also involved in numerous metabolic pathways like protein synthesis (albumin, proteins of acute phase and clotting factors, etc.), glucose, cholesterol, urea, lipid metabolism and drugs detoxification. Still has an important role as a reservoir of nutrients.

The liver is thereby subject to numerous attacks, either viral and bacterial processes or by metabolic, inflammatory, toxic and hereditary processes.

Despite its high regeneration capacity, severe aggression, chronic or repetitive processes can lead to fibrosis, and consequently the appearance of non-functional areas.

Liver's high capacity of regeneration and response causes late manifestation of disease symptoms, when the extension of the injuries is already high.

Effective Protection for Liver Problems

Cells exposed to oxygen produce reactive oxygen species (ROS). These ROS are oxygen molecules that have lost an electron and try to retrieve it from neighboring molecules, causing damage at the level of membranes, collagen, enzymatic processes and protein synthesis, leading even to changes and mutations of DNA.

Almost all the causes of liver fibrogenesis involve ROS. In certain situations the production of these radicals increases, initiating a process of oxidative stress. Exposure to toxic materials, infectious agents, and even prolonged contact with bile acids in cholestasis processes are the common causes for this increased production of ROS.

WePatic® has an antioxidants and protectors key combination to minimize the impact of secondary changes in aggression and liver problems.

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ROS

DNA

PROTEIN

LIPIDS

OXIDATIVE STRESS

INFLAMMATORY CELLS

KUPPFER CELLS DESTROYED

MEMBRANOLITIC BILE ACIDS

LEUKOTRIENES CYTOQUINES

MACROPHAGES (IN RESPONSE TO INFECTIOUS AGENTS AND TOXINS)

DAMAGED HEPATOCYTES

SILIPHOS (SILYBIN + PHOSPHATIDYL-CHOLIN COMPLEX)

Is a source of silybin, highly active and bioavailable for an inhibitory effect over free radicals, and antipatotoxic, helping keeping out harmful agents at a cellular level. Improves liver enzymes' levels. It stimulates the production of new liver cells as well as improvement of existing survival and histology. Increases protein synthesis. Inhibits the synthesis of inflammatory leukotrienes, reducing inflammation and fibrosis.

ZINC

Extensive hepatoprotective function. It inhibits free oxygen radicals production, protecting sulfhydryl groups from oxidation. Works as copper chelator, helping reducing fibrosis. Inhibiting the lipid peroxidation works as a stabilizer of cell membranes.

SELENIUM

Selenium is an essential element and a cofactor for glutathione peroxidase, an enzyme needed to reduce the harmful effects caused by free oxygen radicals. It also has an effect reducing IL-6 transcription and expression.

VITAMIN E

Plays a vital role protecting against ROS. Is the most important fat-soluble vitamin in protection complex, along with glutathione and vitamin C. Its combination with selenium helps prevent peroxidases' action in cell membranes, protecting these last ones from bile acids action in cholestasis situations.

VITAMIN C

It is a water soluble vitamin that acts in the liver mainly as an antioxidant, making the ROS inert.
Effective Protection for Liver Problems

**WePatic® Hepatoprotector - Tasty Tablets**

A nutritional supplement for small breed dogs and cats developed to improve and give nutritional support to the liver function and in cases of chronic liver failure.

**Composition per tablet of WePatic®:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Small Breeds and Cats</th>
<th>Medium and Large Breeds</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAMe (S-Adenosil-L-metionina)</td>
<td>80 mg</td>
<td>300 mg</td>
</tr>
<tr>
<td>Silibos (Complexo de Silibina + Fosfatidicolina)</td>
<td>10 mg</td>
<td>40 mg</td>
</tr>
<tr>
<td>Vitamin C</td>
<td>15 mg</td>
<td>50 mg</td>
</tr>
<tr>
<td>Vitamin E</td>
<td>12 mg</td>
<td>30 mg</td>
</tr>
<tr>
<td>Zinc</td>
<td>10 mg</td>
<td>20 mg</td>
</tr>
<tr>
<td>Selenium</td>
<td>6 μg</td>
<td>12 μg</td>
</tr>
</tbody>
</table>

**Therapeutic recommendations and doses:**

- **Animals up to 5 kg:** 1 tablet WePatic® Small Breed Dogs and Cats per day.
- **Animals from 5 to 10 kg:** 2 tablets WePatic® Small Breed Dogs and Cats per day.
- **Animals from 10 to 20 kg:** 1 tablet WePatic® Medium and Large Breed per day.
- **Animals from 20 to 30 kg:** 2 tablets WePatic® Medium and Large Breed per day.
- **Animals from 30 to 40 kg:** 3 tablets WePatic® Medium and Large Breed per day.
- **Animals over 40 kg:** 4 tablets WePatic® Medium and Large Breed per day.

It is recommended to consult a veterinarian before use. This product should not be used as a substitute for a varied diet. Do not exceed recommended dose. Veterinary use only.

**Presentations:**

- **Small Breeds and Cats:** 30 Palatable Tablets in blister pack
- **Small Breeds and Cats:** 120 (4x30) Palatable Tablets in blister pack
- **Medium and Large Breeds:** 30 Palatable Tablets in blister pack
- **Medium and Large Breeds:** 120 (4x30) Palatable Tablets in blister pack

**References:**


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