artriphen™

Supports Healthy Joint Function

Clinical Application

» Supports Healthy Joint Function*

Artriphen™ is a patent-pending proprietary formula that combines very high grade Glucosamine Sulfate, MSM, Chondroitin Sulfate, DHA and Hyaluronic Acid, Selenium, Vitamin C and Vitamin E.*

Discussion

Artriphen™, a member of XYMOGEN’s Exclusive and Patented (“EP”) line is the result of XYMOGEN’s partnership with Biotanika™, a Canadian company that develops evidence-based natural health products for pain management. It is among a trio of formulas that also includes DoloroX™ and Coolsens™. The formulation of Artriphen™ began with researchers at Biotanika investigating the potential of traditional herb extracts to act additively or synergistically to reduce inflammation and pain using the lowest doses of each herb. Biotanika used three pre-clinical test protocols that are recognized by the scientific community as good models for inflammatory diseases. These tests resulted in formulas benchmarked with current standards of care used in western medicine. The primary goal of the first clinical trial of the three formulas was to assess the safety and efficacy for the relief of pain in fourteen patients with either low back pain, joint (knee, shoulder, or hip) pain, or muscular or articular pain (the majority had moderate-to-severe pain). These patients had visited a natural health care practitioner seeking alternative therapies to NSAIDs or surgery. As is most often seen in patients scheduled for knee replacement surgery or who have had knee replacements, benefit was nil. However, all patients with low back, hip and shoulder pain demonstrated significant benefit.*

Glucosamine Sulfate, a chondro-protective agent occurring naturally in all human tissues, appears to stimulate the manufacture of cartilage components and the deposition of sulfur into the cartilage. In combination with chondroitin sulfate it may be effective in patients with moderate-to-severe knee pain.*[1,2,3]

Methylsulfonylmethane (MSM) is a naturally-occurring, sulfur-containing, water-soluble compound (AKADMS02) has been demonstrated to possess anti-inflammatory and antioxidant properties.*[4,5]

Chondroitin Sulfate, a primary proteoglycan in the body, attracts and retains a significant quantity of water guaranteeing cartilage resistance and elasticity. It has anti-inflammatory and antioxidative properties.[6,7] Hyaluronic Acid, a naturally occurring glycosaminoglycan in synovial fluid, helps create a viscous environment, cushion joints and maintains normal joint function. It has anti-inflammatory and antioxidant properties.*[8,9]

Vitamin C and Manganese - Vitamin C is essential for synthesis of collagen and for maintaining its integrity. Manganese is important in the growth and development of normal bone and in the synthesis of cartilage.[10] Studies in rats, rabbits and humans have demonstrated a joint supportive, anti-inflammatory effect of a combination of glucosamine, chondroitin and manganese ascorbate.[11,12]

Vitamin E, in conjunction with Selenium plays an important role in protecting tissues against oxidative reactions.[13] Selenium limits oxidative stress affecting chondrocytes and synoviocytes in some chondral tissue diseases.*
artriphen™ 90 Capsules Supplement Facts

Serving Size: 2 capsules

<table>
<thead>
<tr>
<th>Nutrient</th>
<th>Amount Per Serving</th>
<th>% Daily Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vitamin C (as Ascorbate)</td>
<td>60 mg</td>
<td>100%</td>
</tr>
<tr>
<td>Vitamin E (as D-Alpha-tocopherol)</td>
<td>3.8 IU</td>
<td>13%</td>
</tr>
<tr>
<td>Calcium</td>
<td>20 mg</td>
<td>2%</td>
</tr>
<tr>
<td>Selenium (as Selenocysteine)</td>
<td>3.8 µg</td>
<td>5%</td>
</tr>
<tr>
<td>Manganese (as manganese aspartate / glutamate / glycinate / lysinate chelate)</td>
<td>3 mg</td>
<td>150%</td>
</tr>
<tr>
<td>Sodium</td>
<td>10 mg</td>
<td>&lt;1%</td>
</tr>
</tbody>
</table>

**Artriphen™ Proprietary Blend**

Glucosamine Sulfate (2KCl) (shellfish exoskeleton stabilized with KCl), MSM (Methylsulfonylmethane), Chondroitin Sulfate (shark cartilage), Omega 3 Fatty Acids with DHA (proprietary marine algae oil: Martek Inc.), Hyaluronic Acid.

**U.S. Patent Pending**

***Daily Value Not Established***

Other Ingredients: HPMC (capsules), Microcrystalline Cellulose, and Magnesium Stearate (derived from palm oil).

DIRECTIONS: Take 6 capsules with water daily: 2 capsules with each meal.

DOES NOT CONTAIN: Corn protein, yeast, dairy products, artificial colors, sweeteners or preservatives. Gluten-containing ingredients (including wheat) are not added to this formula.

CAUTION: artriphen™ is not suitable for people with allergies to fish or shellfish. Diabetics should consult their doctor before using this product. If you are pregnant or breast feeding; if you have or suspect you have a medical condition, or if you are taking prescription drugs consult a healthcare practitioner before use. Do not exceed the recommended daily intake. Do not use if security seal is broken. Keep out of reach of children. Store at room temperature.

**References**

13. Benoit C., [Intervention of the diet in the appearance of lameness in the foal] in French, PhD esis., Lyon, 1998