Bone Support

Clinical Applications

- Supports Bone Metabolism*
- Supports Bone Strength*
- Provides Micronutrients for Utilization in Bone Production and Structure*

Ossopan is a well-researched, standardized extract from one of the world’s safest premium sources of bone—free-range New Zealand cattle. Ossopan contains microcrystalline hydroxyapatite concentrate (MCHC), a complex crystalline compound composed primarily of calcium, phosphorus, bioactive growth factors, type I collagen, amino acids, glycosaminoglycans, and a broad range of essential trace elements that naturally comprise healthy bone. Bone Support contains additional calcium and magnesium in the form of highly absorbable Albion® TRAACS® patented mineral amino acid chelates. Vitamin D is present in the form of cholecalciferol.*

Discussion

More than 20 years of scientific research have given the name Ossopan worldwide recognition as a source of microcrystalline hydroxyapatite concentrate (MCHC). Numerous published studies support the safety, tolerability, and bone health-related effectiveness of MCHC supplementation. Studies suggest that the bioavailability of calcium from MCHC supplements may be as good as or better than the bioavailability of calcium from calcium gluconate supplements. Human Performance Specialists utilizes standardized, safe, bovine-sourced MCHC from New Zealand, a country with stringent standards. Its production features a proprietary technique that preserves the bioactive contents of bone. This process creates a naturally balanced formula because whole bone extract provides all of the nutrients found in healthy bone.*

Unlike other calcium supplements on the market, Bone Support consists of collagenous and non-collagenous proteins and peptides. These compounds include insulin-like growth factors I and II (IGF-I, IGF-II), transforming growth factor beta (TGF-beta), and osteocalcin, factors that stimulate alkaline phosphatase activity and support metabolism in human bone cells. Removal of the protein fraction appears to reduce the positive effects of the formula, highlighting the importance of its presence.*

A study suggested that the occurrence of positive and statistically significant changes in forearm bone integrity were the result of daily supplementation with 3000 mg of microcrystalline hydroxyapatite. Earlier studies compared Ossopan to other forms of calcium with regard to the support of normal bone turnover and bone mineral integrity. In one 20-month, double-blind study, women were given 1400 mg of elemental calcium (equivalent to approximately 5000 mg MCHC) as either calcium carbonate or Ossopan. At the end of the study, the presence of bone integrity was statistically significant in the Ossopan group.*

Clinical trials suggested that Ossopan supplementation was well-tolerated and yielded a positive outcome for dental status, bone integrity, and healthy bone metabolism. A randomized, controlled study indicated that the addition of Ossopan to exogenously administered hormones provided statistically significant support (4.7%, P<0.1) to vertebral bone mass. Another study of 60 subjects suggested that bone mass was maintained while on Ossopan.*

Bone Support is high-quality MCHC from New Zealand. The World Organization for Animal Health (the OIE) has classified New Zealand as a “negligible BSE risk country,” the most favorable official classification a country can be given. Bone Support is manufactured under proprietary processes that meet FDA, USDA, and EU regulatory requirements. Gentle processing is used to retain the delicate protein matrix and organic factors. X-ray-diffraction analysis confirms the microcrystalline structure. The MCHC is assayed for hydroxyproline content. The collagen content is greater than 22% with the majority being type I, the predominant collagen occurring in bone. Frequent heavy metal assays assure purity.

Bone Support incorporates Ossopan, vitamin D, magnesium, and additional calcium in a comprehensive formula. Vitamin D is provided as cholecalciferol, which stimulates intestinal calcium absorption and helps support calcium and phosphorus homeostasis in the body. The formula contains a desirable 2:1 ratio of calcium to magnesium. The malate chelates do not

*These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure, or prevent any disease.
**Supplement Facts**

**Serving Size:** 2 Capsules  
**Servings Per Container:** 60

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<thead>
<tr>
<th>Nutrient</th>
<th>Amount Per Serving</th>
<th>% Daily Value</th>
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<tbody>
<tr>
<td><strong>Vitamin D3 (as cholecalciferol)</strong></td>
<td>100 IU</td>
<td>25%</td>
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<tr>
<td><strong>Calcium (as MCHC† and DimaCal® Di-Calcium Malate)</strong></td>
<td>400 mg</td>
<td>40%</td>
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<tr>
<td><strong>Phosphorus (as MCHC†)</strong></td>
<td>90 mg</td>
<td>9%</td>
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<tr>
<td><strong>Magnesium</strong> (as Di-Magnesium Malate and TRAACS® Magnesium Glycinate Chelate Buffered)**</td>
<td>200 mg</td>
<td>50%</td>
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<tr>
<td><strong>MCHC†</strong></td>
<td>1 g</td>
<td>**</td>
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<tr>
<td><strong>Microcrystalline Hydroxyapatite (as MCHC†)</strong></td>
<td>600 mg</td>
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**Other Ingredients:** HPMC (capsule), vegetable stearic acid, vegetable magnesium stearate, medium-chain triglycerides, and silica.

†MicroCrystalline Hydroxyapatite Concentrate.

DimaCal and TRAACS are registered trademarks of Albion Laboratories, Inc. Malates covered by US Patent 6,706,904 and patents pending.

**Directions**

Take two capsules with meals, twice daily, or as directed by your healthcare practitioner.

**Does Not Contain**

Wheat, gluten, corn protein, yeast, soy, dairy products, fish, shellfish, peanuts, tree nuts, egg, artificial colors, artificial sweeteners, or preservatives.

**References**


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