

Unleash your bone health pet product



Better digestive comfort with higher absorption levels and lower heavy metal counts.*


Bone strength is a crucial aspect of our pets' health throughout their life. ESC[®] brand eggshell calcium is sourced from one of nature's purest forms of calcium,

naturally low in heavy metals. Eggshell calcium also contains transport proteins that improve absorption compared to mined calcium carbonate.*



Ingredient Overview

ESC combines ultra-pure calcium carbonate with inherent transport proteins for better absorption and essential trace minerals for supporting bone mineral density.*^(1,6) The high elemental calcium (minimum 35%) allows for a smaller dose and greater formulation ease.

 Bone Support

 Sport Dog Health

 Healthy Aging

 Ovo-Vegetarian



Better Absorption

Transport proteins in eggshell calcium improve absorption.*



Low Heavy Metals

Withstands California Prop 65 & USP requirements for heavy metals.



USDA Organic

ESC Organic ingredient option now available.



Food-Based

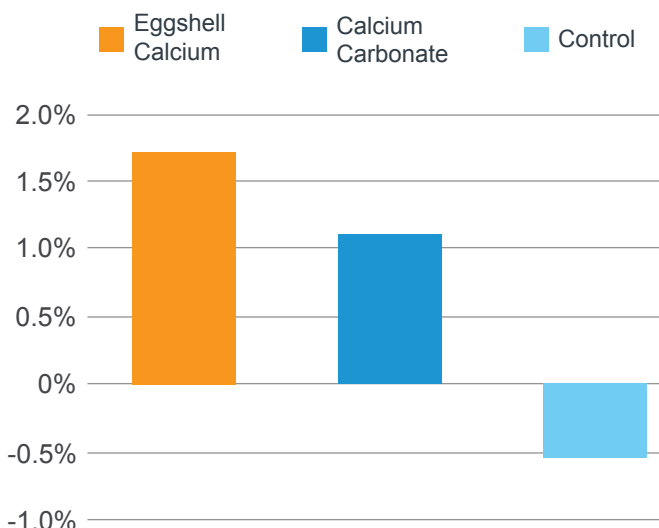
Natural, food-based ingredient that avoids typical digestive discomfort.*



Eggshell Calcium Increases Bone Mineral Density in Healthy Post-menopausal Women*

A randomized, double-blind, placebo-controlled human clinical trial - the gold standard of scientific research - took place over 12 months observing the long-term effects of eggshell calcium on bone mineral density. Eighty-five healthy women, 50-70 years of age who were at least 5 years post-menopausal were studied. The subjects were given either calcium carbonate or eggshell calcium, both supported with Vitamin D and Magnesium, and the effects on bone mineral density (BMD) of the femoral neck were evaluated. The published study can be found in the *British Journal of Nutrition*.⁽⁴⁾

Figure 1. % Change in Femoral Neck Bone Density with Eggshell Calcium, Calcium Carbonate & Control



After 12 months of supplementation, women given eggshell calcium demonstrated a significant increase in BMD of the femoral neck (Figure 1). Similar supplementation with calcium carbonate resulted in nearly a third smaller increase in BMD, while the control group actually lost BMD. The study concluded that supplementation with eggshell calcium can increase BMD of the hip within 12 months in healthy, late post-menopausal women.

Eggshell calcium is supported by many other clinical studies, as well.

Eggshell Calcium's Crucial Transport Proteins Enhance Absorption & Utilization in the Bones

Two studies were conducted for seven days on 23 piglets that looked at the bioavailability of eggshell calcium in comparison with calcium carbonate (CaCO₃). In addition, the influence of casein and soy protein on calcium absorption was studied. Results showed that eggshell calcium was more digestible than the calcium from purified CaCO₃. In the case of casein-based protein diets, eggshell calcium was as good a source of calcium as CaCO₃, and in the case of soy-based protein diets, eggshell calcium significantly outperformed CaCO₃. The study concluded that eggshell calcium is a good source of calcium for growing piglets, which have similar digestive systems to humans.⁽⁵⁾

Furthermore, a separate *in vitro* study was conducted to evaluate calcium transport of eggshell calcium in human intestinal epithelial cells. The study found that soluble eggshell matrix proteins remarkably enhance calcium transport across Caco-2 monolayers. In the presence of whole eggshell matrix proteins, 64.3% more calcium was transported.⁽¹⁾

References

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- See also:
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