



Now offered in **ORGANIC**



Better Absorption

Transport proteins in eggshell calcium improve absorption.



Low Heavy Metals

Exceeds 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.

The Food Derived Choice for Bone Strength

ESC® brand eggshell calcium is one of nature’s purest forms of calcium which contains low heavy metals and transport proteins for improved absorption over mined calcium carbonate. The high elemental calcium (minimum 35%) allows for a smaller dose and greater formulation flexibility. This remarkable form of calcium is available in original ESC® and ESC® ORGANIC!

What makes ESC® so unique?

ESC® is California Prop 65 compliant in all four heavy metals tested at the full Daily Value (DV) for calcium of 1,000 mg per day.* In a comparison study of lead levels, ESC’s levels were more than 50 times lower than the California Prop 65 standard and more than 1,000 times lower than USP (United States Pharmacopeia) limit for Nutritional Supplements. The remaining metals of mercury, arsenic and cadmium were 50 to 450 times lower than the California Prop 65 standard levels. Given ESC’s enhanced absorption and clinical support with California Proposition 65 compliance, the result is the ideal natural calcium source.⁽²⁾

ESC® is a natural Kosher and Halal certified ingredient sustainably derived from US-domestic eggshells. It is manufactured in FDA-inspected, NSF-certified GMP facilities with an eco-friendly patented process.



ESC® brand eggshell calcium is more than 50X lower than California Prop 65 lead level limits when tested at the full Daily Value for calcium – much lower than other calcium sources.⁽²⁾

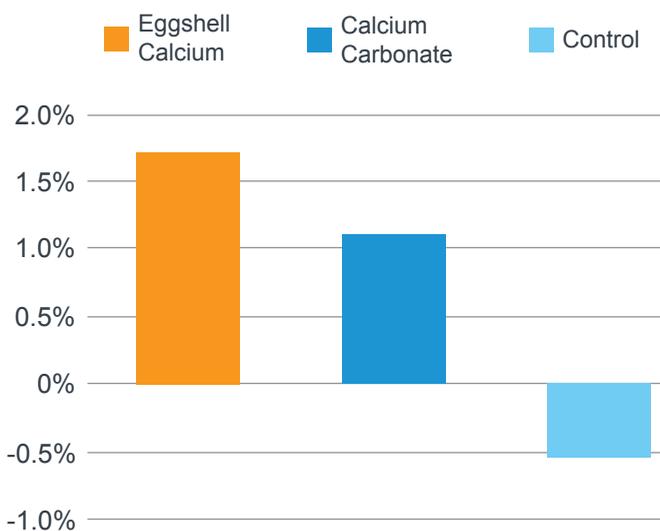
*These statements have not been evaluated by the U.S. Food and Drug Administration. This product is not intended to diagnose, treat, cure, or prevent any disease.



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 that 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.^(3,4,7,8,9)

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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⁾

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See also:

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