



RICHEN
Nutritional



Sugar-Free RiviD3™——Encapsulated Vitamin D3

Vitamin D3, the “sunshine vitamin,” is essential for bone, muscle, and immune health. Yet deficiency remains widespread due to limited sun exposure, aging, and modern lifestyles. RiviD3™ was developed to deliver stable and effective vitamin D3 through advanced encapsulation technology—now further upgraded with a sugar-free formulation to meet the clean-label demands of today's market.



ABOUT

RiviD3™ is an encapsulated form of Vitamin D3 (Cholecalciferol), designed to provide superior stability and reliable performance in food and nutritional applications. Encapsulation protects vitamin D3 from degradation caused by heat, light, and oxidation, ensuring consistent potency across product shelf life. Functionally, vitamin D3 regulates calcium and phosphorus absorption, supports bone mineralization, maintains muscle strength, and enhances immune defense.

Building on this stability advantage, our latest innovation introduces a sugar-free encapsulation. Unlike conventional products that rely on sucrose or gelatin, our Sugar-Free RiviD3™ offers a clean-label, allergen-free alternative—expanding opportunities for tablets, gummies, powdered drinks, and functional foods without compromising stability or efficacy.

Benefits

- Supports calcium absorption and bone strength
- Enhances immune system function
- Promotes muscle health and overall vitality
- Sugar-free and clean-label – ideal for health-conscious consumers
- Complies with the latest USDA Dietary Guidelines for Americans 2020–2025



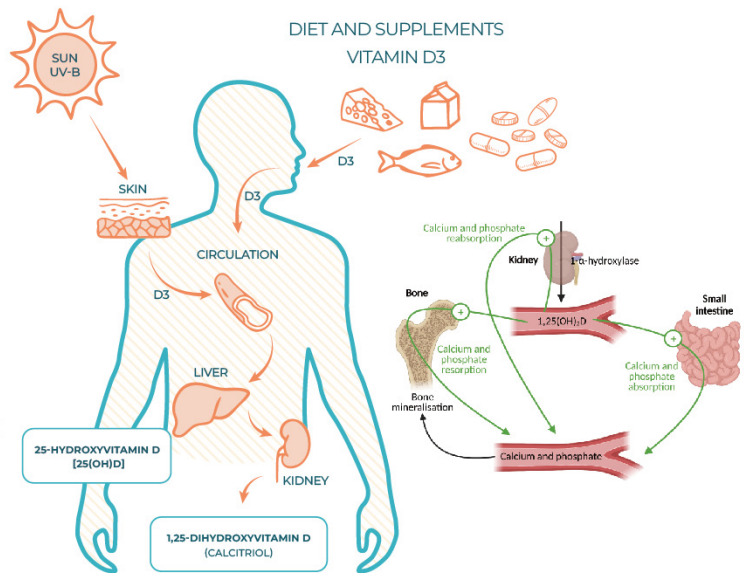
For more information, please visit www.richen-nutritional.com

Our Advantages

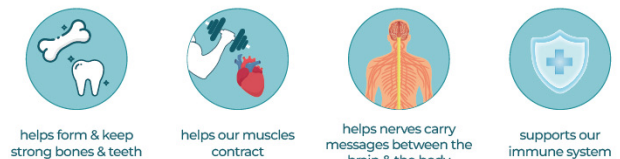
- Sugar-free encapsulation technology (no sucrose, no gelatin)
- High stability in tablets, gummies, and beverages
- Cold-water dispersible for convenient formulation
- Customizable carriers and grades for diverse applications

How does it work

Vitamin D3 (cholecalciferol) from sunlight, foods, or supplements is biologically inactive until a two-step activation converts it—first in the liver to 25-hydroxyvitamin D [25(OH)D], then in the kidney to the active hormone 1,25-dihydroxyvitamin D (calcitriol). Calcitriol binds the vitamin D receptor to help increase intestinal calcium and phosphorus absorption, support bone mineralization, and contribute to healthy muscle and immune function.^[1] Inadequate vitamin D can lead to rickets in children and osteomalacia/low bone mass in adults. Because vitamin D deficiency is widespread worldwide—especially among people with limited sun exposure or restrictive diets—supplementation with stable, sugar-free encapsulated D3 is a safe and effective way to maintain strong bones, healthy muscles, and overall vitality.^[2]



Functions Of Vitamin D



Specifications

TYPES	FORMULATIONS	DOSAGE FORMS	APPLICATIONS
RiviD3™ VitaminD3 (Cholecalciferol) Sugar-free Powder 100,000-120,000IU/g	Bone health: VitaminD3+K2+ Calcium glycinate+ Magnesium glycinate Immune Health: VitaminD3+K2+A+E+ Magnesium glycinate+Zinc Gluconate	 Softgel  Liquid  Gummy  Tablet  Capsule  Powder	Beverage Dairy Products Sports Nutrition Instant Powder Dietary Supplements Bakery&Confectionery Cereal and Cereal Products Food for Special Medical Purposes

You may claim

- Sugar-Free
- Sucrose-Free
- Gelatin-Free
- Non-GMO
- Gluten-Free
- Allergen-Free

Reference

- 1.Holick MF. Vitamin D deficiency. N Engl J Med. 2007;357:266–281.
- 2.Institute of Medicine (IOM). Dietary Reference Intakes for Calcium and Vitamin D. National Academies Press, 2011.

