



Phytodroitin[®]

100% plant-source
alternative to Chondroitin

What is Phytodroitin[®]?

Phytodroitin[®] is a plant-source alternative to Chondroitin, developed to deliver the same structural functionality without reliance on animal-derived materials.

- 1. Plant-Source Alternative** Eliminates the need for animal-derived sources such as shark, bovine, porcine or avian cartilage.
- 2. Structural Mimicry** Designed to replicate the mucopolysaccharide structure responsible for Chondroitin's function in cartilage.
- 3. Broad Market Appeal** Suitable for vegan, vegetarian, and sustainability-driven formulations.

Origin of Phytodroitin[®]

Phytodroitin[®] is derived from a combination of fermentation technology and carefully selected algal extracts.

The fermentation process produces a polysaccharide consisting of glucuronic acid and N-acetylglucosamine, which is then combined with mucopolysaccharide-rich algal components.

This approach enables the creation of a plant-sourced structure that closely resembles traditional Chondroitin, while offering improved sustainability and supply consistency.

Quick Facts

- Suitable for Vegans and Vegetarians
- Non GMO, EtO Free, Allergen Free
- Not Novel in consideration of Regulation (EU) 2015/2283
- Recommend dose: 400mg per day
- Free-flowing, compressible powder
- Cold water dispersible
- MOQ: 20kg (UK stock held)
- Shelf Life: 24 months from date of manufacture
- Samples Available
- Full Quality and Technical Documents available

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Phytodroitin[®] versus Chondroitin

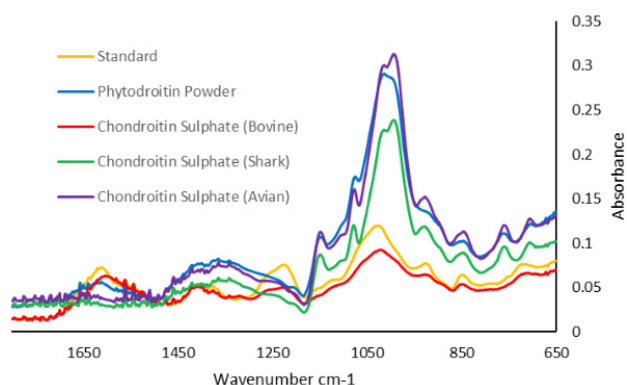
Phytodroitin[®] has been developed to replicate the functional structure of Chondroitin using plant-source inputs.

Independent analysis has demonstrated a strong similarity in mucopolysaccharide structure when compared to animal-derived Chondroitin, supporting its use as an effective alternative in formulation.

What is Chondroitin?

- Chondroitin is a key structural component of cartilage, helping to retain water and maintain elasticity within joint tissue.
- It is a mucopolysaccharide composed of alternating sugar chains, providing resistance to compression and supporting joint function.
- Traditionally, Chondroitin is sourced from animal cartilage, including shark, bovine, porcine, and avian origins.

Research & Validation



A comparative study conducted in collaboration with Nottingham Trent University (UK) analysed the structure of Phytodroitin[®] against traditional Chondroitin.

Using FTIR spectroscopy, results demonstrated that Phytodroitin[®] shows a highly similar mucopolysaccharide profile to Chondroitin sulphate, particularly those derived from avian and shark sources.

For more information about Phytodroitin[®] or any of the products in the **ProTec Nutra** portfolio please contact sales on **+44 (0) 20 3761 3001** or email **info@protecnutra.com**

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