



**NEW & IMPROVED
FORMULA**

ThorneVet PhytoprofenVET

Inflammatory response support for dogs and cats

Helps maintain a healthy inflammatory response to over-exertion or during recovery from surgery or after an injury

Comprehensive Inflammatory Response Support

PhytoprofenVET combines the ayurvedic, inflammatory response-modulating blend of Curcumin, Ginger, and Boswellia – with the swelling-reducing presence of Bromelain. These four ingredients work synergistically with two additional botanical ingredients – the relaxation-inducing Corydalis and the muscle-spasm reducing Jamaican dogwood – to provide true broad-spectrum support for a balanced inflammatory response.

Key Nutritional Support Features

- | A unique blend of six well-researched botanical extracts
- | Support for post-operative / post-injury bruising and swelling
- | Provides comprehensive support for joints, muscles, and connective tissues
- | PhytoprofenVET can be used to promote healing after an injury or surgery



PhytoprofenVET – Special Ingredients

Bromelain

This compound belongs to a group of protein-digesting enzymes that are found in the stem of the pineapple plant (*Ananas comosus*). It is believed that **bromelain** exerts its beneficial effects because of its significant protein-digesting (or proteolytic) activity.

This beneficial proteolytic property of **bromelain** helps reduce swelling and bruising after an injury – such as a tendon sprain or a muscle strain – or after surgery. In clinical studies, **bromelain** has been shown to promote healing, in addition to reducing temporary and minor swelling and bruising following an injury or a surgical procedure – including dental surgery.

In addition, in both in vitro studies and in vivo studies, **bromelain** has demonstrated that it helps maintain a normal inflammatory response in the body, which would also account for bromelain's ability to help reduce swelling and bruising after an injury or surgery.¹

Bromelain has been found to be highly absorbable in the body and free of side effects when it is administered for therapeutic use.

Ginger (*Zingiber officinale*)

Ginger is a botanical that is widely used and well known for its bioactive compounds. There is substantial technical evidence that supports **ginger's** beneficial properties, including its antioxidant capacity and its down-regulating effect on the immune system's inflammatory response.²

Ginger's bioactive compounds exert their beneficial effects by inhibiting a key enzyme that would otherwise up-regulate the body's inflammatory response following an injury or trauma.² Although the beneficial effects of **ginger** are thought to be similar to those of non-steroidal anti-inflammatory medications (like aspirin and ibuprofen), **ginger** does not have a negative effect on the gastrointestinal tract, and thus doesn't cause stomach distress.² The **ginger** constituents **6-shoagol**, **zingerone**, and **8-shoagol** have displayed promising results in both human and animal models, providing benefits relative to several symptoms that are associated with such inflammatory conditions as arthritis.²

Curcumin (*Curcuma longa*)

Curcumin is a polyphenol derivative of the rhizomes of **turmeric** (*Curcuma longa*). Although there is significant research on the health benefits of both **turmeric** and **curcumin**, a limiting variable that is encountered in curcumin's use as a botanical remedy is its resistance to being absorbed after it is ingested.

ThorneVet uses **Indena's** proprietary phytosome technology to boost **curcumins** bioavailability (the same ingredient is in **ThorneVet's CurcuVET** product suite). **Curcumin phytosome** is a much-studied botanical ingredient from **Indena**. **Indena S.p.A.**, which is headquartered in Milan, Italy, is one of the world's leading companies in identifying, developing, and producing high-quality bioactive constituents derived from plants. And it is **Indena's** patented phytosome technology that enhances the bioavailability of their botanical ingredients by utilizing a lipid matrix that enables the active constituents in a phytosome complex to cross through the lining of the gut and into the bloodstream. It is optimizing the absorption of **curcumin** that significantly boosts its metabolic benefits.

Multiple studies demonstrate that **CurcuVet** supports a healthy inflammatory response in small animals. A European study analyzed the bioactivity of **CurcuVet** compared to non-steroidal anti-inflammatory drugs and found their bioactivity to be similar. The study's sponsors, who were studying canine arthritis, found **CurcuVet** was effective in down-regulating two key pro-inflammatory substances – the protein complexes Tumor Necrosis Factor and Nuclear Factor Kappa B. Thus, **curcumin** exhibits a balancing effect by helping to down-regulate the substances that are involved in causing an unbalanced inflammatory response.³ It has also been shown in studies that the combination of **CurcuVet** with **Boswellia** has a positive synergistic effect on balancing the inflammatory response.⁴

Indian Frankincense (*Boswellia serrata*)

Another ayurvedic botanical with a long history of traditional use, **boswellia** oleo-gum-resin has been found to contain many bioactive constituents, of which the **boswellic acids** have been determined to be the most potent regarding their beneficial impact on the body's inflammatory response. The **boswellic acids** exert this beneficial activity by down-regulating 5-lipoxygenase, which is a key pro-inflammatory enzyme.⁵ This distinct and beneficial mechanism of action regarding the body's inflammatory response explains why, when **boswellia** is combined with **CurcuVet**, a synergistic effect occurs that results in a significant balancing effect on the animal's inflammatory response.⁴ Because of the naturally poor bioavailability of raw **boswellia** extracts, **ThorneVet** also takes advantage of **Indena's phytosome technology** by including **Indena's boswellia** ingredient in **PhytoprofenVET** as a phospholipid complex from sunflower – with the fortunate result being the increased absorption into the animal's body of **boswellic acids**.

Corydalis root extract (*Corydalis yanhusuo*)

Corydalis root extract has been found to be an effective botanical remedy for temporary pain, soreness, and discomfort. **Corydalis** extracts have been used for centuries as analgesic agents in Traditional Chinese Medicine.⁶ A recent animal study demonstrated that **Corydalis yanhusuo** effectively lessens various types of temporary pain, soreness, and discomfort without causing any tolerance buildup.⁷ It has been found that of the various 160 compounds isolated from **Corydalis yanhusuo**, the **alkaloids** are the plant's most biologically active constituents, and they are believed to be responsible for **Corydalis's** ability to provide natural relief from soreness and discomfort.⁸ **Corydalis** is traditionally used in combination herbal formulas – it is rarely used by itself. When **Corydalis** is combined with other botanical extracts – as it is in **PhytoprofenVET** – there is a recognized synergism that enhances **Corydalis's** natural analgesic properties and inflammatory response support.

Jamaican Dogwood (*Piscidia piscipula* or *Piscidia erythrina*)

Jamaican dogwood is a small tree that is native to the West Indies. It first found its way into Western herbal medicine in 1898, when it was written about by Felter and Lloyd,⁹ who described its natural analgesic effects, as well as its beneficial effects on painful muscle spasms. **Jamaican dogwood** has also been found to be a calming herb that is helpful for insomnia. Likewise, animal studies in the 1960s,¹⁰ as well as more recent studies¹¹ have reported both the antispasmodic and sedative-like activities of **Piscidia** species. Although the direct mechanisms of action of the natural constituents in **Jamaican dogwood** are still unknown, it appears they work by relaxing nervous system tension. It is this anticipated benefit that makes Jamaican dogwood a helpful addition to PhytoprofenVET – its indication of use in a companion animal is intended to help relax both the animal's nervous tension, as well as spasming, that tends to be heightened during times of injury and inflammation. This botanical extract is used in a low amount – 25 mg per soft chew – in conjunction with the other botanical extracts in **PhytoprofenVET** to balance its effects – making **Jamaican dogwood** extract a safe and natural pain-easing and muscle-relaxing addition to **PhytoprofenVET**.

Ingredient Synergism

ThorneVet's PhytoprofenVET animal health supplement combines the time-tested ayurvedic nutrients Ginger, Curcumin, and Boswellia in their most absorbable and bioavailable forms, along with the swelling-reducing effects of Bromelain. This combination works synergistically with pain-moderating Corydalis and muscle-relaxing Jamaican dogwood to provide a comprehensive approach to alleviating discomfort and moderating the inflammatory response following an animal's injury or after surgery. By addressing the inflammatory process from multiple points of action and incorporating innovative pain-response botanical extracts, PhytoprofenVET is designed to synergistically enhance recovery from a companion animal's injury or surgery.



PhytoprofenVET
Supports normal inflammatory
response processes

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1 soft chew daily



1 soft chew per 25 pounds
of body weight daily

VSF799-SC / 60 Soft Chews

PRODUCT FACTS

Active Ingredients per 4-gram Soft Chew:	
Bromelain extract (stem) (<i>Ananas comosus</i>)	125 mg
Curcumin Phytosome (<i>Curcuma longa</i> extract (root) / Phospholipid complex from Sunflower) (CurcuVET®)	100 mg
Indian Frankincense Phytosome+ (<i>Boswellia serrata</i>) (oleo-gum-resin) / (Phospholipid complex from Sunflower)	100 mg
Corydalis extract (root) (<i>Corydalis yanhusuo</i>)	75 mg
Ginger extract (root) (<i>Zingiber officinale</i>)	50 mg
Jamaican dogwood extract (<i>Piscidia spp.</i>)	25 mg

Inactive ingredients (soft chew matrix):

Arabic gum, buffered white distilled vinegar, chick pea flour, chicory root, citric acid, coconut glycerin, coconut oil, guar gum, natural hickory smoke flavor, rosemary extract, sunflower lecithin, sunflower oil, tapioca starch.

CurcuVET® is a registered trademark of IndenaS.p.A.
+Boswellia standardized to Beta Boswellic Acids 20%



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