



# ThorneVet Joint Support Formula

Formerly Arthroplex

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Musculoskeletal support for dogs and cats

**Supports the health of muscles and joints, assists in healing, and assists mobility in active and aging animals.**

## **Comprehensive musculoskeletal support**

Joint Support Formula helps optimize the normal function of joints and muscles, as well as providing nutrients and botanicals that are necessary for creating collagen, repairing damage, and maintaining a healthy inflammatory response.

## **Key Joint Support Features**

- | Provides the proven joint support of chondroitin sulfate, glucosamine sulfate, MSM, hyaluronic acid, and ascorbic acid.
- | CurcuVet® curcumin phytosome, Boswellia, and bromelain help maintain a normal inflammatory response.
- | DL-Phenylalanine helps dampen the pain response.

# Joint Support Formula – Special Ingredients

## Glucosamine sulfate, chondroitin sulfate, and hyaluronic acid

**Glucosamine** and **chondroitin** are both natural components of cartilage. Numerous animal and human studies have examined the effect of giving these nutrients orally on joint health, and have demonstrated significant clinical benefit.

**Hyaluronic acid** is also a normal component of cartilage and joint structures, and has been shown to be a “chondroprotectant” – a substance that protects cartilage from damage.

## DL-Phenylalanine

**DL-Phenylalanine** is a combination of two well-tolerated amino acids – **d-phenylalanine** and **l-phenylalanine**. Together, these two amino acids relax the musculoskeletal system by increasing the levels of endorphins – beneficial substances produced naturally in the body that cope with stress and pain – thereby calming stressed and painful muscles and joints. **DL-phenylalanine** does this by blocking enkephalinase enzymes, the class of enzymes that break down endorphins – thus providing a natural form of relief from pain and soreness in muscles and joints.

## MSM

**MSM (methyl sulfonyl methane)** provides sulfur compounds for the formation of cartilage. A combination product containing **MSM**, **glucosamine sulfate**, and **chondroitin sulfate** was given to rats with experimentally-induced joint inflammation. The combination provided protection against cartilage damage when given short-term, and better protection when given long-term.

## Vitamin C

Vitamin C is a powerful antioxidant that plays an essential role in joint health. Research suggests that vitamin C protects against cartilage damage by inhibiting the action of molecules that trigger joint inflammation – such as interleukin 1-beta. Vitamin C also serves a role as a co-factor in the body’s production of collagen, the body’s most abundant protein, and a major component in the growth and repair of the connective tissues that make up healthy tendons, ligaments, cartilage, and muscle.

## Botanical Extracts

### Curcumin Phytosome

**Curcumin**, an orange-pigmented substance derived from turmeric root, has been shown in many animal and human studies to dampen inflammation and improve quality of life. **CurcuVet® curcumin phytosome** is the best absorbed and most clinically-researched curcumin product on the market.

### Bromelain

**Bromelain**, derived from pineapple stems, dampens inflammation and has been shown to speed healing and resolution of bruising.

### Boswellia

**Boswellia**, also known as Indian Frankincense, has been demonstrated in animal and human clinical studies to benefit joint structures and dampen inflammation. **Boswellia** reduces the amount of an enzyme regulating inflammation messenger molecules.



## Joint Support Formula Comprehensive Musculoskeletal Support

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1/2 scoop daily



1 scoop per 25 pounds of body weight daily

V944-P / 120 Scoops

### PRODUCT FACTS

#### Active ingredients per 2.5-cc Scoop:

Glucosamine Sulfate (as Glucosamine Sulfate Potassium Chloride complex)	225 mg
Ascorbic Acid (Vitamin C)	100 mg
DL-Phenylalanine	75 mg
Curcumin Phytosome ( <i>Curcuma longa</i> extract (root) / Phospholipid complex from Sunflower) (CurcuVET®)	50 mg
Chondroitin Sulfate (Avian)	50 mg
Methylsulfonylmethane	50 mg
Indian Frankincense extract (gum) ( <i>Boswellia serrata</i> )	35 mg
Bromelain	35 mg
Hyaluronic Acid	10 mg

**Inactive ingredients:**  
flaxseed, silicon dioxide.

# THORNEVET

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