



PawMedX[®]
COMPLETE NUTRITIONAL SUPPORT FOR ANIMALS

HIGH POTENCY Professional Formula

HIP & JOINT COMPLETE

Healthy Hips & Joints for Animals

PawMedX[®] Professional Strength Hip & Joint Complete provides ingredients and dosages based on clinical research studies. This synergistic blend is designed to create an environment within the pet to help support joint health and comfort. The all-liquid design is formulated with PawMedX's cellular technology which enhances fast delivery and absorption of nutrients into cell tissue. Research supported use of key ingredients show them to be effective in assisting with maintenance of healthy joints and hips.

HIP & JOINT COMPLETE SUPPORTS:

- Cartilage health
- Joint mobility
- Bone density
- Synovium health
- Joint comfort
- Tendon strength

Founded in Science

Glucosamine

Glucosamine is a small molecular building block used for the **synthesis of cartilage and joint lubrication**. Glucosamine Hydrochloride (HCL) and Glucosamine Sulfate are the two forms of glucosamine that have been extensively researched and shown to provide nutritional benefit.

By providing joints with this essential nutrient, glucosamine can help support cartilage health. In addition to its role as a building block for the synthesis of cartilage, it appears to play an additional role in the **production of joint synovial fluid**.

Chondroitin

Chondroitin sulfate is a glycosaminoglycan found in cartilage and bones. It is made of alternating sequences of sulfated substances of uronic acid and n-acetyl-galactosamine. It is a key component of cartilage and its derivatives are found in **synovial fluid**.

At its most basic level, chondroitin can help cartilage by providing it with the building blocks it needs to maintain support. **Chondroitin is also believed to block enzymes that break down cartilage in joints**. Research indicates that **chondroitin increases the amount of hyaluronic acid in joints**. Hyaluronic acid is a protective fluid that keeps joints lubricated. Finally, chondroitin may contribute toward **anti-inflammatory support**. Research is ongoing.

Collagen

This powerful ingredient contains key components which can help support **healthy skin and joint function**. There are 14 different types of collagen in the body, and is the most abundant in the joint matrix. Collagen **helps support synthesis of new cartilage in joints**. Collagen contains a high concentration of **chondroitin sulfate A**, which is a **powerful anti-inflammatory** and also supports joint tissue. Collagen also contains a **newly discovered antioxidant proteoglycan called cartilage matrix glycoprotein (CMGP)**, which can help address oxidative damage to an animal's joints.



Liquid Formula for Enhanced Absorption

- Safe • Highest Quality • Effective

Concentrated Liquid Nutrients:

- Glucosamine Sulfate
- Glucosamine HCL
- Chondroitin Sulfate
- Methyl-Sulfonyl-Methane (MSM)
- Collagen
- L-Proline
- Vitamin C
- Grapeseed Extract
- Boron
- Calcium
- Magnesium
- Manganese



L-Proline

L-Proline is an amino acid essential for the synthesis of collagen, the most abundant protein in animals. Collagen is the structural protein that comprises all connective tissues, including skin, tendons, ligaments, joints, bone and vasculature (veins and arteries). L-Proline has a significant role in providing the building blocks that help to stabilize and support structural components.

Methyl-Sulfonyl-Methane (MSM)

Methyl Sulfonyl Methane (MSM) is organic sulfur. It is found in the fluid and tissues of all living organisms. MSM is lost when food items are dehydrated or stored.

In the body, MSM is used to promote growth of healthy new cells. MSM also makes cell walls permeable, allowing waste materials to pass through them. MSM is an important cell builder and binder of soft tissues in the body. Sulfur has a vital relationship to protein and is found in essential amino acids such as methionine and cystine. It is necessary for collagen synthesis, a vital component in both skin and bones, where it knits the minerals together and gives flexibility to them. It is also important in carbohydrate metabolism.

Vitamin C & Grapeseed Extract

Vitamin C is required for the synthesis of collagen, an important structural component of blood vessels, tendons, ligaments and bones. Numerous studies have indicated its role in the support of healthy joint tissue. In addition, Vitamin C deficiency can result in the deterioration of oral gum tissue (primarily made up of collagen) that causes animals to lose their teeth. Vitamin C along with Grapeseed Extract serve as powerful antioxidants that protect the body from cellular damage caused by free radicals (unstable oxygen molecules that cause cellular damage).

Manganese

Manganese is a mineral required in small amounts to manufacture enzymes necessary for the metabolism of proteins and fat, an important factor with pets. It also supports the immune system, blood sugar balance and is involved in the production of cellular energy, reproduction and bone growth. Manganese supports healthy body structures of repetitive motions and normal involuntary body movement.

Manganese makes up part of a molecule known as mucopolysaccharides. These molecules are used to form collagen, the strong, fibrous connective material that builds tissues throughout the body, including bone, tendons and cartilage, the rubbery cushioning found where bones meet. The mesh of collagen is the framework on which calcium, magnesium and other bone-hardening minerals are deposited.

In addition, manganese has a definite impact on mental activities, and if the pet's mental faculties are to remain well-balanced and under control rather than unruly and chaotic, manganese must be balanced and supplied in proper quantities.

Calcium, Magnesium and Boron

Calcium, Magnesium and Boron are necessary nutrients that support the formation of strong, healthy bone tissue. They also help maintain bone density. Calcium and Magnesium play many critical roles as they work together in the formulation of adenosine triphosphate, the key form of biologic energy. Getting the correct balance of these important nutrients is critical for an animal's optimal physical functioning.

- **Boron** enhances the ability to absorb calcium and magnesium. Boron may also help convert Vitamin D to its active form, supporting the absorption of calcium. Boron supports healthy brain function and cognitive performance as well as strong bones and joints.
- **Calcium** is needed for strong bones and teeth, and in proper balance with magnesium, the pet can better absorb and assimilate the nutrients. The proper amount of magnesium allows calcium to migrate out of tissue and organs where it doesn't belong.
- **Magnesium** also plays a significant role in muscle health, normal calcium balance in organs and blood vessels, proper growth, cardiovascular electrical impulses, nerve transduction, as well as supports a healthy and happy disposition.



HIP & JOINT COMPLETE

PROFESSIONAL FORMULA

All-Liquid nutritional supplement

ACTIVE INGREDIENTS Per 1 ounce (30 mL):	
Glucosamine HCL/Sulfate	1650 mg
Chondroitin Sulfate	1200 mg
MSM (Methyl-sulfonyl-methane)	1500 mg
Collagen	50 mg
L-Proline	50 mg
Manganese (manganous chloride)	25 mg
PROPRIETARY BLEND	55 mg
Ascorbic Acid (Vitamin C), Boron (sodium borate), Calcium (calcium chloride), Grapeseed Extract, Magnesium (magnesium chloride)	
INACTIVE INGREDIENTS: Purified water, sorbic and/or benzoic acids (preserve freshness).	

Body Weight	Daily Dosage
1-15 lbs	10 mL (2 TSP)
16-30 lbs	15 mL (1 TBS)
31-50 lbs	20 mL (4 TSP)
51-100+ lbs	30 mL (2 TBS = 1 ounce)

Directions: For daily use, refer to dosage chart above. **Note:** Dosage can be increased with the advice of your veterinarian. Shake well before use. For easy application, dose may be added to animal food or water.

FOR ANIMAL USE ONLY. Do not consume if tamper resistant seal is broken or missing. KEEP CAP TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN AND ANIMALS TO AVOID UNINTENDED CONSUMPTION.

www.pawmedx.com

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