

- **Marine Collagen Extract** – A safe, non-toxic, highly bioavailable dietary source of non-shellfish derived mucopolysaccharides also known as glycoaminoglycans. MCE contains a naturally occurring type I collagen which provides the foundation for strong connective tissue and bones. It stimulates the joint tissue and leads to collagen synthesis through cell activation and growth.
- **Boswellia serrata** – Blocks the production of inflammation causing leukotrienes. An overview of 2011 in vitro and animal studies found the acids inhibit the synthesis of pro-inflammatory enzymes, Clinical trials have demonstrated that boswellic acids have anti-inflammatory effects similar to nonsteroidal anti-inflammatory drugs (NSAIDS), without stomach irritation or ulceration.
- **Turmeric** – Curcumin the bioactive constituent of turmeric is a strong anti-inflammatory proven to regulate and inhibit the activity of: COX and LOX enzymes; synthesis of prostaglandins; production of inflammatory chemicals like tumor necrosis factor and interleukin; and activity of nuclear factor, I-kappa B. Turmeric is proven to inhibit the growth of S.aureus and leishmania, common organisms that are known to cause infectious canine arthritis.
- **Feverfew** – Soothes joint discomfort and proven to calm rheumatoid arthritis pain. Analgesic and anti-inflammatory benefits. Contains 39+ compounds that affect the body in beneficial ways including the chemical parthenolide, shown to have anti-inflammatory effects by inhibiting the protein I-kappa-B.
- **Celery seed** – Inhibits pro-inflammatory factors. Contains antioxidants and polysaccharides that are known anti-inflammatories, in particular the flavonoid and polyphenol antioxidants.
- **Corydalis root pronounced kuh-rid-l-is** – A non-addictive analgesic and circulatory tonic, Cordalysis is well-known for a safe history of use in Traditional Chinese Medicine. Among the many beneficial chemicals of the plant, Dehydrocorybulbine (DHCB), isolated from the root is proven effective for acute, inflammatory, and chronic/neuropathic pain.
- **Cayenne**– Relieves joint and nerve pain by boosting substance P, a chemical that carries pain messages to your brain. Boosts circulation, metabolism, digestion and nutritional uptake.
- **Wheatgrass** – Contains the super strength antioxidant super oxide dismutase (SOD), proven to reduce pain and swelling for arthritis sufferers and increase joint mobility dramatically. Contains more than 80 minerals, amino acids, and vitamins.
- **Proteolytic enzymes**
  - Bromelain** Anti-inflammatory and analgesic properties due to its ability to mediate prostaglandin levels and influence pain mediators. May provide an alternative treatment to NSAIDs for pets with osteoarthritis. Reduces the swelling of mucous membranes. Soothes digestive disorders and combats intestinal parasites
  - Papain** - essential regulator and modulator of the inflammatory response. Proteolytic enzymes increase the activity of macrophages and natural killer (NK) cells; degrade pathogenic complexes that inhibit immune function and improve circulation by improving blood viscosity increasing oxygen and nutrients to tissues and transporting harmful waste

products away. Proteolytic enzymes break down plasma proteins and cellular debris at the site of injury facilitating their passage through the lymph, resolving swelling, which relieves pain and discomfort.

## **PLUS**

- **A proprietary blend of Native Australian herbs –**

**Wild Rosella** - helps prevent arthritic pain and inflammation by neutralizing toxins in the joints. A powerful antioxidant.

### **Aniseed Myrtle**

Has effective and safe anesthetizing properties that can reduce arthritic pain. Contains compounds that counteract the buildup of toxins in the joints.

- **Capsicum Extract** Capsaicin binds to TRPV1 and brings about a similar reaction in the brain as that caused by heat, reducing pain sensations. Inhibits the action of inflammatory enzymes: prostaglandins, COX-2 and nitric oxide synthase.
- **Mountain Pepper.**
- Contains several key flavonoids including **anthocyanin** which has the strongest anti-inflammatory effect of all flavonoids tested, it is also proven to boost collagen production. Mountain pepper has a long history of medicinal use in Australia's Aboriginal culture as an aid for arthritis. A natural antibacterial agent.
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Use caution in patients with ragweed allergy.

Contraindications: Antibiotics, blood thinning medications