

SOFT TISSUE SUPPORT PACK



CLINICAL APPLICATIONS

- Supports Healthy Tendon and Ligament Function
- Maintains Normal Inflammatory Balance
- Addresses Post-Workout Muscle Tightness
- Promotes Normal Tissue Recovery and Repair

MUSCULOSKELETAL HEALTH

Soft Tissue Support Pack combines the functional formulations of four top products in a single pack to create the ideal nutritional protocol for soft tissue and muscle support. It promotes healthy connective tissue, supports the body's healing process and relieves post-workout muscle tightness, all while maintaining normal inflammatory balance. Soft Tissue Support Pack includes the following supplements: 2 Traumeric capsules, 3 Vasuczyme tablets, 2 GABAnol capsules and 1 C-Flav capsule. These ingredients provide a multidimensional approach for soft tissue support delivered in convenient packets for ease of use and better compliance.

Overview

Inflammation is a natural part of the body's immune response, a cascade triggered to protect the body and maintain normal tissue repair. Soft Tissue Support Pack provides a full spectrum of botanicals, enzymes and micronutrient factors to maintain normal inflammatory balance and address discomfort of ligaments and tendons. In addition, gamma-aminobutyric acid (GABA) and glycine are included to support muscular relaxation. The addition of flavonoids, such as quercetin and rutin provide additional soft tissue and blood vessel support.

Turmeric Root Extract (standardized to contain 95% Curcumin)[†]

Curcumin, the active compound in turmeric, has been shown to have strong NFkB-modulating properties and plays a crucial role in maintaining normal inflammatory balance. Its mechanisms include inhibition of several cell signaling pathways at multiple levels.^{1,2} Studies have also shown that curcumin provides cardiovascular protection, strengthens the immune system, normalizes oxidative stress in soft tissue, and improves cognitive function.⁷

Proteolytic Enzymes (as Vasuczyme)[†]

Soft Tissue Support Pack also includes Vasuczyme, which provides the powerful enzymes bromelain, trypsin, amylase, lipase, lysozyme, cellulase, peptidase and alpha chymotrypsin. This combination has been used for many years in Europe as part of a multidimensional approach for tissue repair and recovery. Vasuczyme studies have highlighted the efficacy of systemic enzyme therapy for a variety of uses, including maintaining normal inflammatory balance, nasal passage health, bronchial health,^{8,9,24} musculoskeletal health and exercise-related recovery.^{10-12, 16,17,19} In vitro, animal and human data show that enzyme therapies are capable of cleaving immune complexes, which are known inflammatory mediators.²¹⁻²³ In one study, among four different types of immune complexes prepared in vitro and incubated with different concentrations of an enzyme mixture (papain or pancreatin) approximately 90% of the antigen complexes were cleaved by low doses of enzymes. In addition, antibody complexes were gradually cleaved by concentrations from 5-80 mg.²² Proteolytic enzymes have also been shown to reduce levels of the immune marker, TGF- β (Transforming Growth Factor beta), by converting the protease inhibitor alpha2M from the slow form into the fast form, which binds and inactivates TGF- β . In one study, oral proteolytic enzyme therapy reduced TGF- β levels, maintaining normal inflammatory balance.^{14,18,19} A study done in children who were given either a polyezyme mixture or a monoenzyme agent, found that those receiving the polyezyme mix maintained optimal balance of proinflammatory cytokines (IL-2, IL-6, and TNF- α). Additionally, the beneficial cytokine IL-4 demonstrated the potency of polyezyme therapy to maintain normal inflammatory balance and promote tissue repair. In addition, enzyme therapy supports improvements in exercise-induced discomfort, stiffness and

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mobility¹⁵, especially when helping to support cartilage and joint function in the knee and hip.¹⁷ Strong peptidase enzymes have been used in both Japan and Europe for maintaining normal inflammatory balance since the early 1980s, with systematic reviews supporting their beneficial role in lowering the release of harmful amines in various tissues, balance the bodies systemic inflammatory burden, as well as supporting the breakdown of unwanted proteins without affecting healthy tissues.¹⁵⁻²⁰ Additionally, in an animal study, similar enzymes were found to be effective as more traditional options for maintaining normal inflammatory balance. Research has also shown that flavonoids, such as rutin and quercetin, maintain normal inflammatory balance. Specifically, they have been shown to reduce the production of TNF- α by macrophages, microglial cells and mast cells helping to maintain normal inflammatory balance.²⁴ In a randomized, single-blind study on the antioxidant effect of rutin, after six weeks, those receiving rutin had significantly elevated plasma flavonoids (quercetin, kaempferol and isorhamnetin) displaying the powerful antioxidant effect of rutin.²⁴ Quercetin was also found to decrease the expression and production of TNF- α , IL-1beta, IL-6, and IL-8.²⁵ Finally, systemic enzyme therapy has been shown to stimulate internal defenses to support a normal musculoskeletal inflammatory response. Systemic enzyme therapy has been shown to modulate cytokine levels and shift "immune balance" toward a calm, efficient immune state recovery.⁹⁻²⁰

Flavonoids (as C-Flav)[†]

Quercetin, hesperidin complex, hibiscus flowers, and rutin are also included in the Soft Tissue Support Pack to help support healthy capillary permeability and stabilize tendon and ligament function. Quercetin is a potent antioxidant which inhibits inducible ICAM-1 expression, an important pathway for maintaining normal inflammatory balance.²⁴ Quercetin has been shown to stabilize mast cells by releasing key cytoprotective factors to promote the balanced release of inflammatory mediators from mast cells.²⁵ It also directly inhibits tyrosine kinase and nitric oxide synthase, and modulates the activity of inflammatory mediator NFkB. Rutin is a flavonoid that has been shown to help maintain levels of the biological antioxidant reduced glutathione. Vitamin C is always recommended with flavonoids such as rutin and quercetin since they act in synergy, and vitamin C has been shown to increase the cross-linking of collagen to improve the structural integrity of ligaments and tendons. It is also a potent antioxidant, reducing oxygen free radicals caused by inflammatory processes.²⁶

GABA and Glycine (as GABAnol)[†]

GABA and glycine are amino acids that impart neurotransmitter activity within the central nervous system (CNS). GABA and glycine both have an inhibitory (calming) effect in the CNS promoting a sense of relaxation in the brain and body by decreasing nerve cell over-firing. Acting as major inhibitory

neurotransmitters, GABA and glycine reduce excitatory activity in the brain resulting in a decrease in signals that trigger muscle spasms. This contributes to a natural, muscle relaxing effect for tense and tight muscles and ligaments.

Directions

1 packet per day or as recommended by your health care professional. Best if taken on an empty stomach; take closer to a meal to improve tolerance.

Does Not Contain

Wheat, gluten, dairy products, fish, shellfish, peanuts, tree nuts, egg, artificial colors, sweeteners or preservatives.

Contains the following potential allergens: corn, pineapple/ bromelain and animal/plant enzymes.

Cautions

Very high doses may have contraindications in patients taking Coumadin/ Warfarin, or with patients with bleeding disorders. Do not consume if you are pregnant or nursing.

Supplement Facts ^{v7}		
Serving Size 1 Packet Servings Per Container 9 & 30		
1 packet contains	Amount Per Serving	% Daily Value
Vitamin C (as Ascorbic Acid USP, Acerola Fruit)	470 mg	522%
Vitamin B6 (as Pyridoxine Hydrochloride USP)	50 mg	2,941%
Magnesium (as DiMagnesium Malate)	15 mg	4%
Pancreatin	450 mg	*
Protease (from Pancreatin) (90,000 USP Units)		*
Amylase (from Pancreatin) (90,000 USP Units)		*
Lipase (from Pancreatin) (7,200 USP Units)		*
Papain	180 mg (1,080,000 USP Units)	*
Trypsin	72 mg (18,000 USP Units)	*
Chymotrypsin	27 mg (2,025 USP Units)	*
Bromelain (from Pineapple) (2,400 GDU/g)	375 mg (900 GDU)	*
Peptidase	40 mg (24,000 Serratiopeptidase Units [SPU])	*
Turmeric Root Extract (Standardized to contain 95% Curcuminoids)	660 mg	*
Quercetin Dihydrate	385 mg	*
Gamma Aminobutyric Acid (GABA)	250 mg	*
Glycine USP	225 mg	*
Cramp Bark	200 mg	*
Rutin	175 mg	*
Dong Quai Root Extract (Standardized to contain 1% Ligustilide)	150 mg	*
Acerola Fruit (Standardized to contain 17% Vitamin C)	100 mg	*
Hesperidin Complex	50 mg	*
Hibiscus Flowers	50 mg	*

* Daily Value not established

ID# 351009 9 Packets, ID# 351030 30 Packets

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