

## JOINT VIBRANCE®

THE MOST COMPLETE

# Joint Formula

Supplement Facts		Serving Per Container 21	
Serving Size 1 scoop (17.7g)		Serving Per Container 21	
Amount per serving	% Daily Value	Amount per serving	% Daily Value
Calories	65	Hyaluronic acid	265 mg *
Calories from fat	5	Other glycosaminoglycans	125 mg *
Total Fat	0.5 g 1%**	Glucosamine HCL (Crustacean)	1500 mg *
Total Carbohydrate	10 g 3%**	Chondroitin sulfate A (bovine)	500 mg *
Dietary fiber	8 g 30%	Silica from 45 mg Horsetail ext.	3 mg *
Protein	5 g 10%**	Boron	2 mg *
Vitamin C (ascorbic acid)	100 mg 167%	from 75 mg calcium fructoborate	
Calcium	192 mg 20%	Boron	1 mg *
(from lactate & other ingredients)		from 21 mg boron glycinate	
Iron	4 mg 25%	<b>Antioxidants/Flexibility Factors</b>	
Magnesium (from lactate)	79 mg 20%	MSM (Methylsulfonylmethane) pdr.	1000 mg *
Zinc (from citrate)	10 mg 67%	Boswellia serrata 20+% AKBA	100 mg *
Manganese (from citrate)	5 mg 250%	extract (ApreFlex®)	
Sodium	132 mg 5%	Meriva® curcuminoids phospholipid	100 mg *
Potassium	473 mg 15%	Bromelain (2400 GDU)	100 mg *
<b>Cartilage Builders</b>		Grape seed 95% polyphenols	20 mg *
Type 1 bovine hydrolyzed	8600 mg *	40% OPCs standardized extract	
100% collagen		<b>Palatability and Solubility Factors</b>	
Type 2 hydrolyzed chicken	2400 mg *	Citric acid	220 mg *
sternum collagen providing:		Yacon Root powder	220 mg *
Type 2 collagen	1500 mg *	Sunflower lecithin powder	100 mg *
Chondroitin sulfate A (CSA)	500 mg *		

Other Ingredients Orange Pineapple Flavoring (505 mg)

\*These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.

ApreFlex is a registered trademark of Laila Nutraceuticals exclusively licensed to PL Thomas - Laila Nutra LLC, U.S. Patent #8,551,496 and other patents pending. Meriva® is a registered trademark of Indena S.p.A., Meriva® contains soy (as lecithin only). Meriva® contributes 67mg non-GMO, hypoallergenic, anti-nutrient free soy lecithin.

► Joint Vibrance is intended for regular daily use in maintenance of healthy joint function. No other formula is as complete. It takes more than just one ingredient to repair joints. Some only rehydrate; others only support connective tissue. Joint Vibrance combines botanical extracts, specific minerals, powerful nutrients and much more to restore joint function and structure.\*

► **Directions** Once a day as a dietary supplement, mix 1 scoop (enclosed) of Joint Vibrance into 4 to 8 oz. of water, diluted fruit juice or your beverage of choice. Stir briskly or blend in a shaker bottle. Best taken between meals to maximize absorption of nutrients.

► Also Available in Tablets, 252 count (JVT)



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## Rehydrates + Rebuilds + Reduces with:

- ✓ Over 10g of Type 1 & Type 2 Collagen
- ✓ 1000mg of Methyl Sulfonylmethane
- ✓ 1500mg of Glucosamine HCL
- ✓ 500mg of Chondroitin Sulfate A
- ✓ 265mg of Hyaluronic acid
- ✓ and much more!\*



Look What's Inside

## Joint Vibrance Builds Healthy Joints. No other formula is as complete.

Arthritis, sports injuries, repetitive motion on the job, sprains and strains give nearly everyone some degree of cartilage breakdown by the age of 32 to 35.

Joint Vibrance provides cartilage building cells (chondrocytes) with the proper nutrients necessary for construction of new cartilage and synthesis of hyaluronic acid. As we age, chondrocyte activity slows and eventually fails to adequately compensate for the daily wear and tear placed on joints by an active lifestyle.

Today's science has shown us that the function of chondrocytes can be sustained as long as their nutritional requirements are met. Cartilage can be brought back to greater levels of health, strengthened and thickened if proper nutrients are supplied. There is one controlling principle in the effort to rebuild cartilage: There must be some cartilage with viable chondrocytes in the joint in order for repair to proceed.

### The Collagens

Two types of hydrolyzed collagen serve as the backbone of Joint Vibrance. Human clinical trials have shown that new cartilage could be detected by x-ray examination of joints after six weeks of consuming 7 to 10 grams of type 1 collagen, or just 1 to 2 grams of type 2 collagen. Joint Vibrance version 4.3 supplies both type 2 and type 1 collagen.

Cartilage is made up of a mass of collagen fibers held together in a proteoglycan matrix or glue. (That glue is primarily synthesized from chondroitin sulfate A.) The collagen in cartilage – type 2 collagen – is slightly different in its composition than type 1 collagen found in bone, skin, tendons, blood vessel walls, and organs. As a result, supplemental type 2 collagen directly benefits cartilage synthesis.

Type 1 collagen aids the synthesis of cartilage when large doses are given, supports the integrity of tendons, and supports bone health. Bone is composed of 30% to 36% type 1 collagen. Since cartilage deterioration is often accompanied by bone deterioration, the type 1 collagen in Joint Vibrance will help maintain the integrity of bone and the stabilizing tendons wrapped around joints. Joint Vibrance then, does not just seek to build cartilage, but expands beyond that role to improve all components of the joint.

### CSA, Glucosamine & Hyaluronic acid

Chondroitin sulfate A, with a little help from the other glycosaminoglycans in Joint Vibrance, is fashioned by chondrocytes into the sticky protein-sugar (proteoglycan)



matrix, or glue, that holds all the collagen fibers together to form cartilage. Glucosamine is converted to hyaluronic acid by chondrocytes. Each molecule of hyaluronic acid contains 5 molecules of water, giving it a very large, slippery structure. Its goal is to escape the chondrocyte where it was made, and slowly work its way out through the cartilage to take its place as a major structural component in synovial fluid. Along the way, the glucosamine that has now become hyaluronic acid, rehydrates cartilage, giving it greater cushioning power. In addition, Joint Vibrance delivers 265 mg of natural hyaluronic acid from chicken sternum. This is intended to support and replenish the hyaluronic acid content of synovial fluids in every joint. But it takes more than glucosamine, chondroitin and hyaluronic acid to provide first class nutritional support to chondrocytes.

### Silica/Silicon

Silica from horsetail contributes the element silicon to connective tissue, giving them strength and stability. It is found in precisely the tissues we are discussing here: bone, cartilage, and tendons (as well as skin and blood vessels) helping to make them strong.

### Antioxidants

Inflammation in sore, aching joints is characterized by oxidative damage to cells in the affected area. White blood cells (leukocytes) and macrophages, immune cells that travel through tissues looking for damage to clean up, utilize free radicals to dismantle the cellular debris they ingest as part of their cleanup work. Free radicals, inadvertently released during the process, run amok, inflicting some damage to healthy tissue surrounding the original site of injury. Antioxidants can help control these biochemical events.

Grape seed extract, Curcuminoids, ApresFlex® Boswellia serrata extract and bromelain extracted from pineapple stems all help quell free radical activity and resultant discomfort. Condensed tannins from grapeseed extract temporarily bind broken collagen fibers for a "quick fix" in connective tissues (e.g. ligaments, tendons, skin etc.). 1000 mg of MSM (methylsulfonyl methane) support flexible disulfide bonds in those same connective tissues.

ApresFlex® concentrates AKBA, the acronym for 3-O-Acetyl-11-keto-beta-boswellic acid. AKBA is the most active compound of Boswellia serrata extracts. AKBA is a potent inhibitor of the enzyme, 5-lipoxygenase (5-LOX), a key enzyme in the synthesis of cell messengers (leukotrienes) that are made from the ubiquitous omega-6 fatty acid, arachidonic acid. The dose of ApresFlex® required to quell the manufacture of leukotrienes is just 100 mg. That is what you will find in each serving of Joint Vibrance.\*

