

Celadrin® Liposome Lotion: Beyond Joint Pain

On its introduction, the active ingredient in Celadrin® was hailed by Time magazine as one of the most promising new developments in research aimed at joint health.¹ Subsequent study has confirmed this promise with several clinical trials supporting both oral and topical use. Although Celadrin® initially was available only as an oral product, Celadrin® Liposome Lotion is a novel blend of acetylated fatty acids, MSM, arnica, menthol, and other synergistic agents formulated for external application. Applied topically, Celadrin® penetrates to enhance joint function and mobility while relieving pain. The addition of arnica and menthol (a topical analgesic) brings to the formulation proven aids in the areas of muscle soreness, bruising, sprains, stiffness and simple backache.

Clinical trials support the topical use of Celadrin® Liposome Lotion for:

- Relief of both joint and muscle pain
- Enhancement of flexibility and range of motion
- Support of increased local muscular endurance and exercise training in arthritis
- Improvements within as little as 30 minutes
- Increasing efficacy over a period of at least 30 days
- Compared to the placebo, 100% of test subjects in a clinical trial experienced significant benefit

The cetylated fatty acids (CFA) of Celadrin® do not act primarily as a pain relieving analgesic nor as an anti-inflammatory in the usual sense. Unlike aspirin, ibuprofen and other non-steroidal anti-inflammatory preparations, cetylated fatty acids exhibit no side effects. Early clinical trials involving subjects characterized by both arthritis and auto-immune disorders, including reactive psoriatic arthritis, suggest that CFA may act in part via immune modulation.^{2,3} Other theories to explain the efficacy of CFA include special surfactant qualities useful for lubrication of the joints and muscles, and mediation of inflammatory processes, including inhibition of 5-lipoxygenase.

Regardless of the mechanism of action, the consensus, as embodied in the findings of a trial lasting 68 days, is that “compared to placebo, CFA provides an improvement in knee range of motion and overall function in patients with OA of the knee. CFA may be an alternative to the use of nonsteroidal anti-inflammatory drugs for the treatment of OA.”⁴

Celadrin® in several studies has been tested specifically for efficacy as a topical lotion. In the first of these clinical trials, the effect of a cream consisting of cetylated fatty acids (no menthol) on functional performance in patients diagnosed with osteoarthritis of one or both knees was assessed. Forty patients diagnosed with knee OA were randomly assigned to one of 2 topical treatment groups: (1) cetylated fatty acid (CFA) (n = 20; age 62.7 +/- 11.7 yrs); or (2)

placebo group (n = 20; age 64.6 +/- 10.5 yrs). Patients were tested on 3 occasions: (1) baseline (T1), (2) 30 min after initial treatment (T2), and (3) after 30-day treatment of cream application twice per day (T3). According to the published report, for stair climbing ability and the “up-and-go” test, significant decreases in time were observed at T2 and T3 compared to T1 in the CFA group only. Supine range of motion of the knees increased at T2 and T3 in the CFA group, whereas no difference was observed in the placebo group. For the medial step-down test, significant improvement was observed at T2 and T3 compared to T1 in the CFA group. For the unilateral anterior reach, significant improvement was observed for both legs in the CFA group and in only the left leg in the placebo group. Moreover, the improvements observed in the CFA group were significantly greater than placebo for both legs.⁵

A continuation of the above trial examined the effect of the addition of menthol to the Celadrin® lotion. This study used a single treatment group with a pre-post experimental design to examine the percent change brought about by treatment. According to the write-up, “In individuals with knee OA, significant improvements in stair-climbing ability (about 12%), “up-and-go” performance (about 12%), balance and strength (about 16.5%), and range of motion (about 3.5%) were observed, as were reductions in pain. In individuals with severe pain of the elbow and wrist, significant improvements in dynamic (about 22 and 24.5%, respectively) and isometric (about 33 and 42%, respectively) local muscular endurance were observed, as was a reduction in pain.” All these changes were consistent with prior published results and the authors concluded that their work was consistent with enhancing exercise training in this study population.⁶

A third clinical trial using the topical cream (no menthol) and examining effects on static postural stability and plantar pressures in patients with osteoarthritis of one or both knees reached conclusions similar to those found previously: “30 days of treatment with a topical cream consisting of cetylated fatty acids improves static postural stability in patients with knee OA presumably due to pain relief during quiet standing. Such over-the-counter treatment may help improve the exercise trainability of people with OA.”⁷

Supporting ingredients in the lotion bring their own benefits. Menthol has been used since ancient times as part of topical antipruritic, antiseptic, analgesic, and cooling formulations.⁸ It also can aid in the penetration of the skin by the other ingredients.⁹ Arnica, when tested clinically, lives up to its traditional reputation: “Arnica is not inferior to ibuprofen when treating osteoarthritis of hands.”¹⁰ Finally, MSM, sometimes proposed to aid dermal penetration and a source of organic sulfur, also supports skin health and the improvement of some skin conditions.¹¹

Consideration should be given to employing Celadrin® Liposome Lotion in conjunction with the Protocol For Life Balance™ oral formulations, such as D-Flame™, Glucosamine & Chondroitin or Serrazimes®.

References available upon request or at our website: www.protocolforlife.com

10 Reasons to Recommend Celadrin® Lotion to your Patients

1. It is free of parabens and other synthetic chemicals. No negative side effects have been reported when used as directed.
2. While other lotions simply “mask” discomfort, Celadrin® works at the source by enhancing cell membranes and restoring synovial fluids.
3. Celadrin® Lotion contains a patented blend of esterified fatty esters and other natural ingredients that have been proven to provide relief.
4. Advanced liposome technology allows Celadrin® to go to work quickly, in as little as 30 minutes.
5. Celadrin® can be used in a multitude of applications, including joints, muscles, backache, arthritis, bruises, strains and sprains.
6. Celadrin is clinically shown in multiple double-blind, placebo-controlled studies to be effective. In one study, 100% of participants reported significant improvement.
7. Clinical studies have demonstrated its ability to provide cumulative restorative benefits.
8. Unlike many products that give off an overpowering odor, Celadrin® has a very mild and pleasant scent that dissipates very rapidly.
9. Celadrin® has won a number of awards for sales and quality through the natural products industry.
10. Celadrin® is safe to use daily, and serves as a wonderful adjunct to physical therapy, chiropractic, and medicinal treatment.

Celadrin® Lotion Counter Display

*A Natural Way to Help Your Patients
& Increase Your Profits*

Item # P9470 SRP: \$24 Price: \$115 (20% Off)



Your Profit \$173
Guaranteed Sale

The Protocol for Life Balance™ Celadrin® Lotion Display can be conveniently placed in your lobby or waiting room. Each display holds twelve 4 oz bottles of Celadrin® Liposome Lotion.

Code
P9470

Size
1 Display/12 Bottles

New!

Nutri-Dose™ B-12 10,000 mcg Shots



B Vitamins are essential components in most major metabolic reactions as they play an important role in energy production, including the metabolism of lipids, carbohydrates, and proteins. Vitamin B-12 facilitates energy production and is required for nucleic acid (DNA) synthesis, methionine synthesis from cysteine, and normal myelin synthesis in the nervous system. Along with vitamin B6 and folic acid, adequate levels of vitamin B-12 are required to maintain healthy plasma homocysteine levels.*

The elderly and strict vegetarians are often at risk for Vitamin B-12 deficiency, either due to low dietary intake or decreased absorption. B-12 10,000 mcg Nutri-Dose™ is a convenient and palatable liquid formulation that is absorbed quickly by the body, delivering rapid, energizing nutrition.*

**Convenient Vial Delivery System / With Complete Liquid B-Complex
Mixed Berry Flavor / A Dietary Supplement / Vegetarian Formula**

Code Size
P0453 12:15 mL

Supplement Facts	
Serving Size 1 Tube (15 mL)	
Servings Per Container 12	
	Amount Per Serving
Calories	50
Total Carbohydrate	13 g
Sugars	3 g
Sugar Alcohol (as Xylitol)	2.5 g
Vitamin C (as Ascorbic Acid)	100 mg
Vitamin B ₁ (from Thiamine HCl)	3 mg
Riboflavin (Vitamin B-2)	3.4 mg
Niacin (as Niacinamide) (Vitamin B-3)	50 mg
Vitamin B ₆ (from Pyridoxine HCl)	10 mg
Folic Acid	400 mcg
Vitamin B₁₂ (as Cyanocobalamin)	10 mg (10,000 mcg)
Biotin	300 mcg
Pantothenic Acid (from Calcium Pantothenate)	50 mg
Choline (from Choline Bitartrate)	5 mg
Inositol	5 mg

Other ingredients: De-ionized Water, Vegetable Glycerine, Fructose, Xylitol, Natural Berry and Cherry Flavors, Malic Acid, Potassium Sorbate (as preservative) and Natural French Vanilla Flavor.

Contains no salt, yeast, wheat, gluten, soy, milk, egg or shellfish. Vegetarian/Vegan Product.

Code	Products	Size		Code	Products	Size
P0105	5-HTP 100 mg	90 Vcaps®		P3301	Ocu Support™ Clinical Strength	90 Caps
P0108	5-HTP 200 mg + Tyrosine	60 Vcaps®		P1659	Omega-3 Lemon Liquid /Molecularly Distilled	7 oz
P1811	A - Biotic™ Enteric Coated, Potent	60 Gels		P1656	Omega-3/Enter 180/120 /Molecularly Distilled	90 Gels
P0076	Acetyl-L-Carnitine 500	100 Vcaps®		P1657	Omega-3/Enter 180/120 /Molecularly Distilled	180 Gels
P3344	Adrenal Cortisol Support™	90 Vcaps®		P1661	Ultra Omega-3 500/250/Molecularly Distilled	90 Gels
P3032	AHCC® 500 mg	60 Vcaps®		P1662	Ultra Omega-3 500/250/Molecularly Distilled	180 Gels
P3282	Aller-All™ Seasonal Support	60 Tabs		P3281	Ortho Detox™	90 Caps
P3036	Aloe Vera 5,000	100 Gel		P2912	Ortho Dophilus™ 8 Strains, 4 Billion	60 Vcaps®
P3042	Alpha Lipoic Acid 250 mg	90 Vcaps®		P0950	Ortho-E™ NON-GE	60 Gels
P3046	Alpha Lipoic Acid 600 mg Plus	60 Vcaps®		P3772	Ortho Liquid Multi™ - Iron Free/Xylitol	16 oz
P0030	L-Arginine 500 mg	180 Caps		P3788	Ortho Multi™ Greens NEW!	180 Vcaps®
P2958	BioCore® Enhanced Enzymes	90 Vcaps®		P3878	Ortho Multi™ for Men Caps	90 Vcaps®
P0471	Biotin 5000 mcg	90 Vcaps®		P3875	Ortho Multi™ for Men Tabs	90 Tabs
P1228	Bone Strength™	180 Caps		P3816	Ortho Multi™ Softgel w/ Flax 400 mg	90 Gels
P1720	Borage/GLA 1050 mg	60 Gels		P3798	Ortho Multi™ for Women Caps	120 Vcaps®
P3303	Brain Regain™	60 Vcaps®		P3796	Ortho Multi™ for Women Tabs	90 Tabs
P3063	Brocco Immune™	60 Vcaps®		P3340	Ortho Prostate™	90 Gels
P2943	Bromelain 2400 gdu/500 mg	90 Vcaps®		P3368	Ortho Thyroid™	90 Vcaps®
P3308	C.Away™	90 Vcaps®		P1413	OsteoBoron® 3 mg, Natural Form/base	90 Vcaps®
P1268	Cal-Mag, Liquid, Lemon	16 oz		P0487	Pantethine 300 mg Co-enzyme A	60 Gels
P1675	CardioTri-Plex™	120 Gels		P4727	Peppermint Oil G.I.™ Enteric	90 Gels
P0072	L-Carnitine 500 mg Carnipure®	60 Caps		P3345	PepZin G.I.® Soothe™	60 Tabs
P3019	Celadrin® Joint Liposome Lotion	4 oz		P2385	Phosphatidyl Serine 100 mg & Ginkgo 60 mg	60 Gels
P9470	Protocol Celadrin® Tabletop Display	12 Bottles		P3338	Progesterone Cream Pump - 20 mg	3 oz
P1415	ChromMate® 200 mcg	90 Caps		P5955	ProtoClear™ Berry Flavor	2.3 lbs
P1731	CLA Away™	90 Gels		P5956	ProtoClear™ Info Card & Sample - Berry	25 g
P0405	CoEnzyme B Complex	60 Tabs		P5957	ProtoClear™ Orange Flavor	2.3 lbs
P3163	CoQ10 60 mg + Fish Oils	90 Gels		P5958	ProtoClear™ Info Card & Sample - Orange	25 g
P3208	CoQ10 100 mg Softgels	90 Gels		P5960	ProtoClear™ Vanilla Flavor	2.3 lbs
P3196	CoQ10 200 mg Lozenges	60 Loz		P5961	ProtoClear™ Info Card & Sample - Vanilla	25 g
P3198	CoQ10 400 mg Softgels	60 Gels		8931	ProtoClear™ Premium Shaker Cup	12 oz
P3182	CoQ10 600 mg Softgels	60 Gels		P0716	ProtoSorb™ C 500	100 Vcaps®
P3186	CoQ10 Liquid 100 mg/tsp	4 oz		P0726	ProtoSorb™ C 1000	100 Tabs
P4638	Curcumin 665 mg 95% Extract	60 Vcaps®		P2928	ProtoDophilus™ 50 Billion/Cap NEW!	50 Vcaps®
P3121	D-Flame™ Cox-2 Formula	90 Vcaps®		P3321	Red Yeast & CoQ10 30 mg, ALA	90 Vcaps®
P2956	Dairy Digestion™	90 Vcaps®		P3500	Red Yeast Rice Extract 600	90 Vcaps®
P4704	EGCg 400 mg/50%	90 Vcaps®		P3353	Resveratrol 200 mg Extra Strength	60 Vcaps®
P2963	Enzymes-HCl™ NEW!	120 Caps		P2147	D-Ribose Powder NEW!	300 g
P5993	Fiber O-3™ NEW!	16 oz		P0138	SAMe 200 mg Enteric + B Complex	60 Tabs
P1770	Flax Seed Oil 1000 mg Organic	120 Gels		P4756	Saw Prostetto™ 320 mg/85-95% Extract	90 Gels
P0498	Flush Free Niacin 500 mg	90 Vcaps®		P1485	Selenium 200 mcg, Yeast-Free	90 Vcaps®
P4683	Ginkgo Biloba 120 mg/24% Plus	100 Vcaps®		P2954	Serrazimes® 33 mg/20,000 units	90 Vcaps®
P3318	Glucose Balance™	90 Caps		P1905	Slimaluma® Plus	60 Vcaps®
P3170	Gluc/Chond/MSM Caps	90 Caps		P6957	Stevia Complete Packets	100/box
P3172	Gluc/Chond/MSM Caps	180 Caps		P6955	Stevia Non-Bitter Liquid, Sweet	2 fl oz
P3243	Gluc/Chond 2 per day, Extra Strength	120 Tab		P6960	Stevia Non-Bitter Powder, Sweet	1 oz
P3130	Gluc & MSM, Vegetarian 1000 mg	120 Vcaps®		P3507	Sytrinol® Cholesterol Formula	60 Vcaps®
P3175	Liquid Glucosamine, Chond, MSM	16 oz		P0142	Taurine 1000 mg Caps	100 Caps
P0094	L-Glutamine 1000 mg	120 Caps		P3145	Ubiquinol CoQH-CF™ 50 mg	60 Gels
P3274	Grape Seed OPC 250 mg Extract	90 Vcaps®		P3380	True Balance™ Multi	120 Caps
P3055	Immune Renew™ (Org. Mushrooms)	90 Vcaps®		P0166	L-Tryptophan 500 mg	60 Vcaps®
P3134	Joint-UC™ Collagen	60 Vcaps®		P0167	L-Tryptophan 500 mg	120 Vcaps®
P1625	Krill Oil, Neptune (NKO®) 500 mg	60 Gels		P0169	L-Tryptophan 1000 mg	60 Tabs
P2448	Liver Detox™	90 Caps		P3123	Vein Integrity™ with Trunorin®	90 Vcaps®
P3062	LYC-O-MATO® 20 mg Lycopene	60 Gels		P2168	Virility For Men with LJ100®	60 Vcaps®
P2811	D-Mannose Urinary 500 mg	90 Caps		P0452	Vitamin B-12 Liquid Tri-Formula 5,000 mcg	4 oz
P3258	Melatonin 3 mg Lozenge & B-6	120 Loz		P0690	Vitamin C-1000 Cap+100 Bioflavonoids	120 Caps
P3326	MetaboEnergetics™	90 Caps		P0365	Vitamin D-3 1,000 IU	120 Gels
P0495	Methyl B-12 1,000 mcg	100 Loz		P0367	Vitamin D-3 2,000 IU	120 Gels
P0496	Methyl B-12 5,000 mcg	60 Loz		P0372	Vitamin D-3 5000 IU	120 Gels
P4739	Milk Thistle 300 mg/80% Plus	90 Vcaps®		P0370	Vitamin D-3, Liquid 5000 IU	2 oz
P2120	MSM 1,000 mg	180 Caps		P0374	Vitamin D-3 10,000 IU NEW!	90 Vcaps®
P0085	NAC N-acetyl cysteine 600 mg + Antioxidants	100 Caps		P0906	Vitamin E-400 20% Mixed + Selenium	120 Gels
P3140	Nattokinase 100 mg/2000 FU units	60 Vcaps®		P1554	Zinc Glycinate, 30 mg Softgels NEW!	120 Gels
P0453	Nutri-Dose™ B-12 10,000 mcg NEW!	12: 15 mL				



New!



Vitamin D₃ 10,000 IU Cholecalciferol

Ongoing clinical studies continue to demonstrate the system-wide beneficial effects associated with high-dose vitamin D₃ (cholecalciferol) therapy. With more patients deliberately avoiding UV exposure and whole milk, supplementation has seen steady increases in demand and user success rates.

Protocol For Life Balance Vitamin D-3 10,000IU has as a base the probiotic enhancer, Nutra Flora FOS®. Nutra Flora FOS® is a concentrated source of fructooligosaccharides (FOS), a non-digestible carbohydrate which aids the growth of beneficial bacteria such as bifidus and acidophilus.* Protocol for Life Balance™ Vitamin D-3 10,000 IU offers unparalleled potency and exceptional value for both you and your patients.

***Highest Potency / Structural Support / 10,000 IU
 Helps Maintain Strong Bones / Supports Dental Health****

Code Size
 P0374 90 Vcaps®

Supplement Facts

Serving Size: 1 Vcap®
 Servings Per Container: 90

Amount Per Serving	
Vitamin D ₃ (as Cholecalciferol) (from Lanolin)	10,000 IU

Other ingredients: **NutraFlora® FOS (Fructooligosaccharides)**, Cellulose (capsule) and Stearic Acid (vegetable source).

*These statements have not been evaluated by the FDA. These products are not intended to diagnose, treat, cure or prevent any disease.