



**Microcurrent Pain Relief Patch Technology
Technology Overview**

Microcurrent Systems, LLC

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What is Microlief® ?

The Microlief® unit consists of one Microcurrent Controller snapped on to one pair of Microcurrent Electrode Patches.

The Patches are specifically designed to transmit the mild electrical current generated by the Controller.

The hydrogel patches are placed on either side of the target/painful area.

The Microlief® unit is activated when the Patches make contact with the body. A blinking red light on the Controller indicates that current is flowing through the body.



✓ **Microlief[®] is the Ideal Solution:**

- ✓ Provides fast, effective, natural pain relief
- ✓ Reduces swelling and inflammation
- ✓ Reduces need for NSAIDS
- ✓ Speeds injury recovery
- ✓ Stimulates natural healing processes within the body
- ✓ Is easy to use and affordable

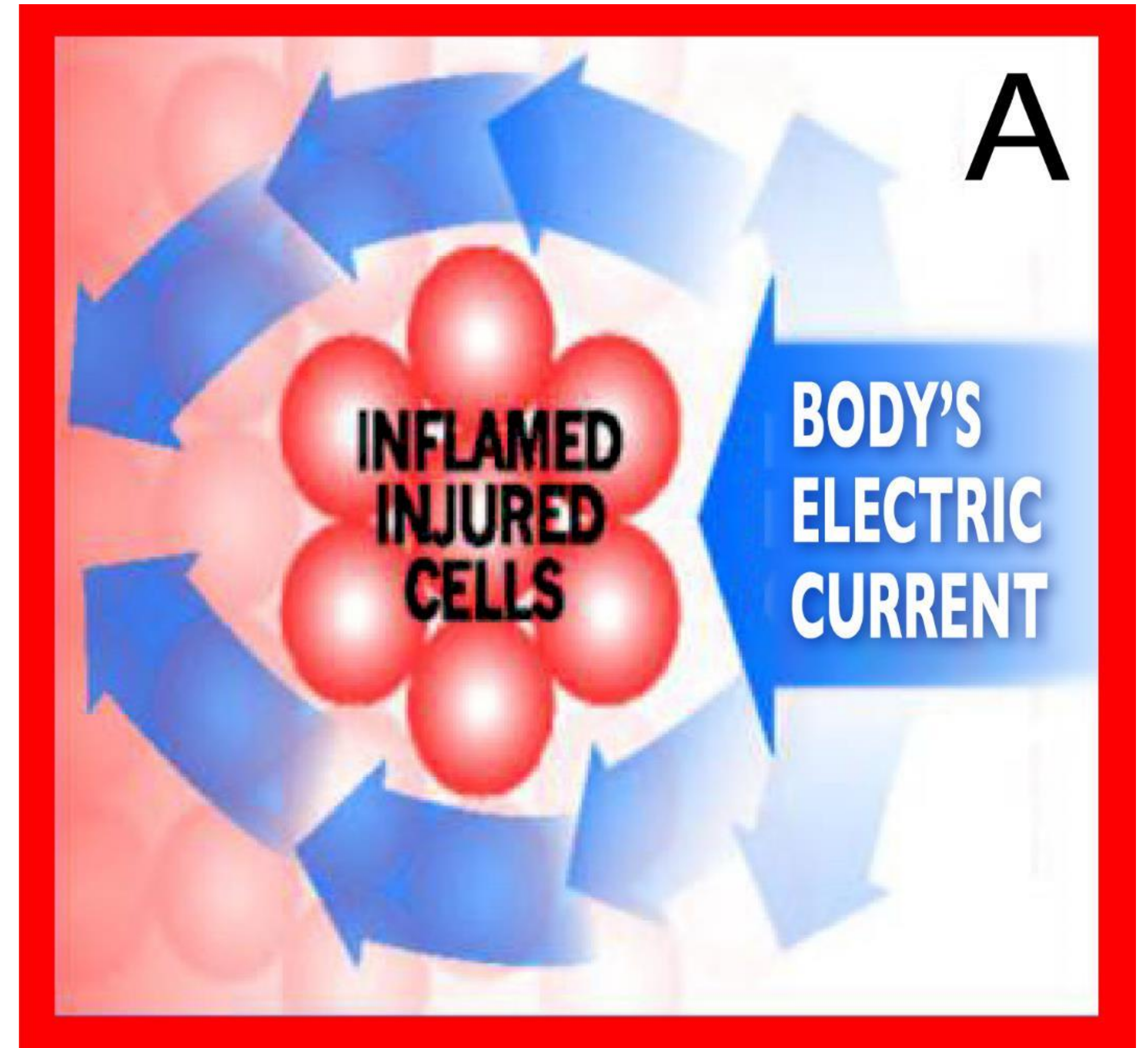


How does Micro Relief® Work? (Slide 1 of 3)

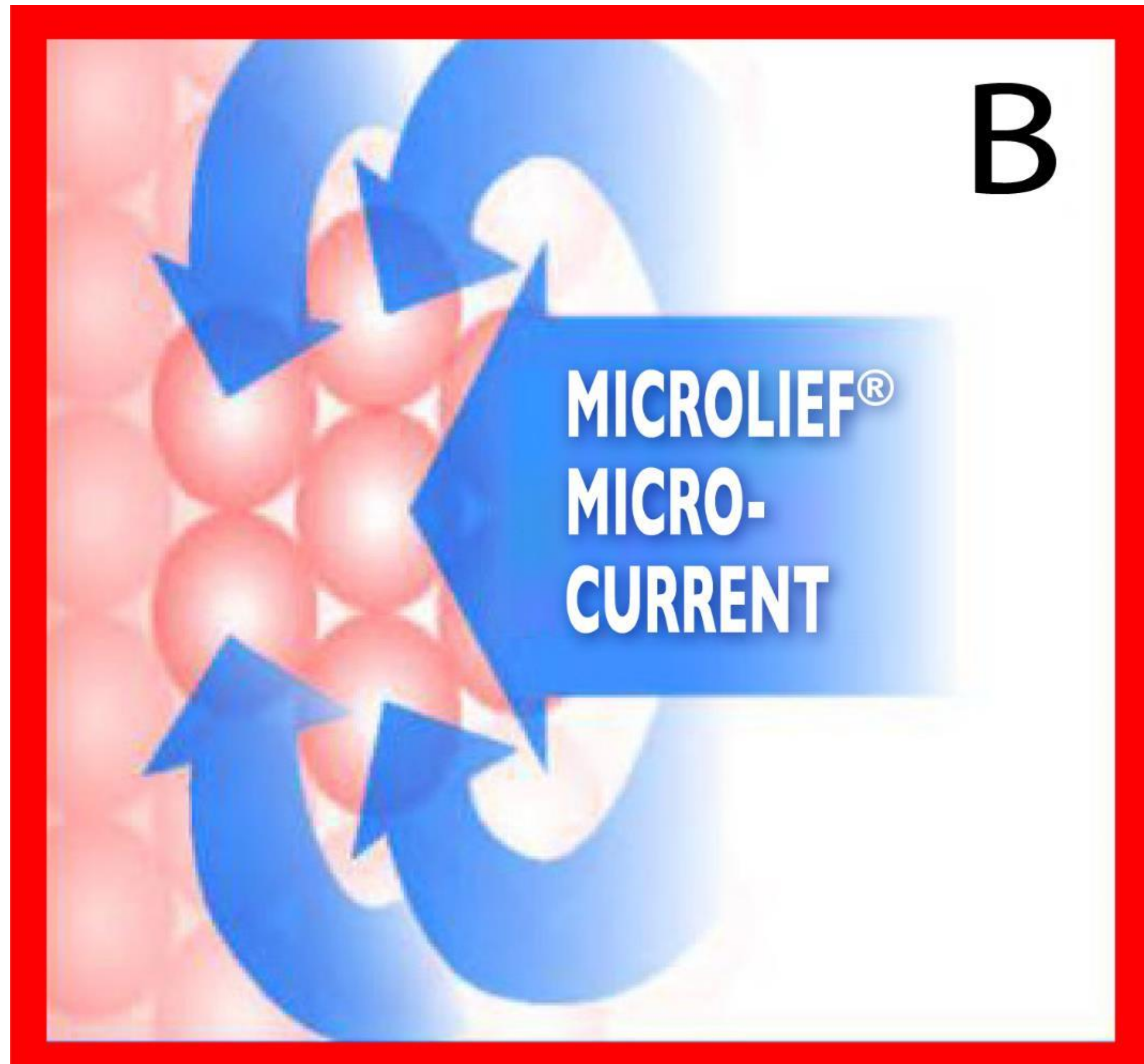
When muscles are injured, the body's natural electric current, takes a detour around the injured area.

This energy detour restricts normal blood flow to the area and deprives the injured cells of oxygen and vital nutrients.

This energy detour causes heat, swelling and pain in the injured area.



How does Microlief® Work? (Slide 2 of 3)



Microlief® currents penetrate the inflamed cells and restore the essential blood supply necessary to re-establish the normal cell activity.

The external application of microcurrent:

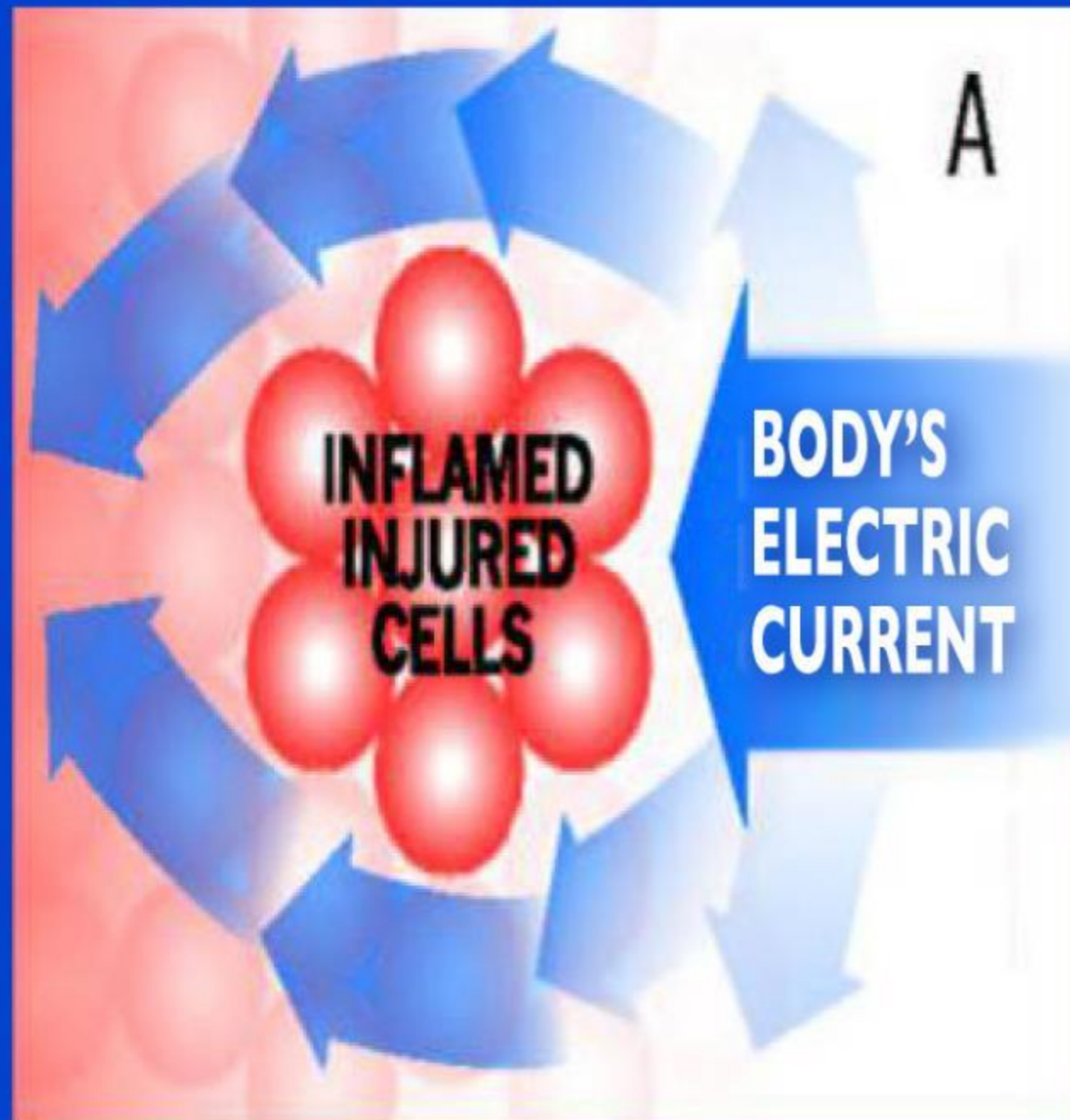
- Increases the production of ATP
- Increases protein synthesis
- Increases oxygenation
- Increases ion exchange
- Increases absorption of nutrients
- Increases elimination of waste products
- Neutralizes the oscillating polarity of deficient cells.
- Restores homeostasis to the cellular system.

By normalizing cell activity, inflammation is reduced and collagen producing cells are increased.

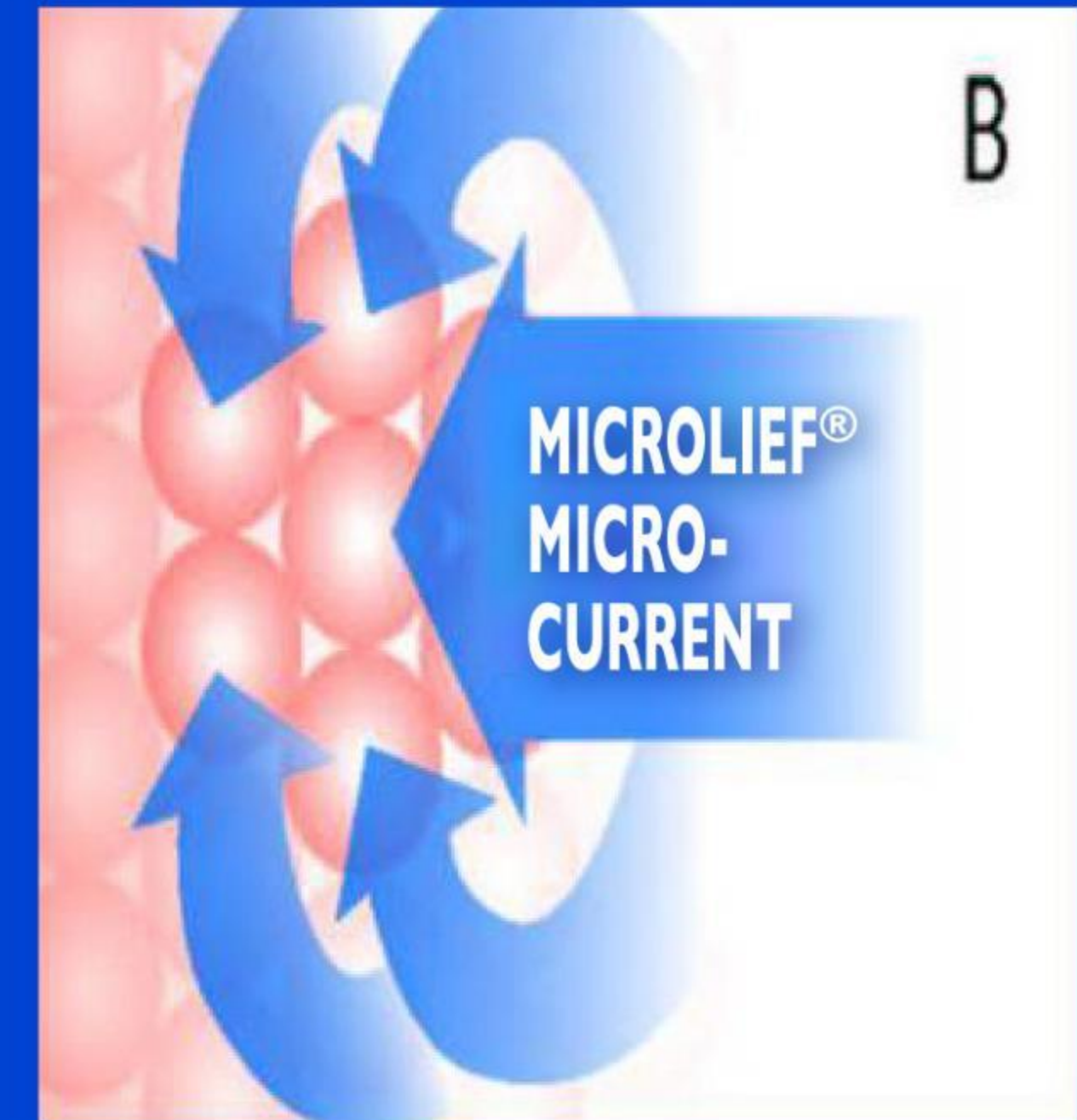
Healthy cell metabolism creates a healthy, pain free internal environment.

How does Microlief® Work? (Slide 3 of 3)

How does Microcurrent technology bring direct pain relief?



The injured cells resist the body's natural electric current, preventing the supply of blood, oxygen and vital nutrients (A). The Microlief® microcurrent penetrates the inflamed cells, restoring the essential blood supply, removing cell waste, and bringing direct pain relief (B).

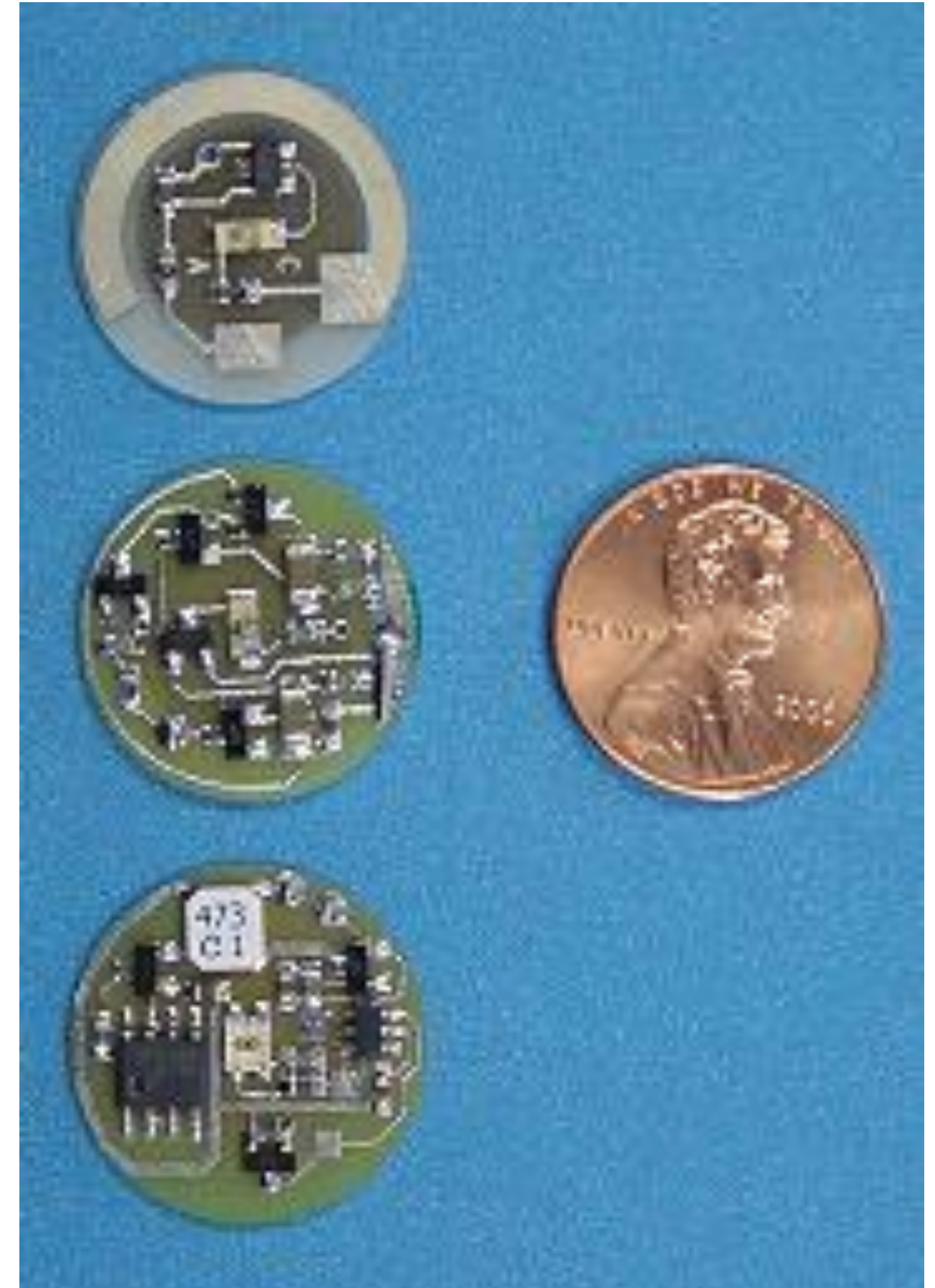


The Technology

System will deliver a sustained flow of low amperage electric current at a fixed frequency using the latest electronics

Incorporates the combination of using the body as an electrical switch mechanism coupled with a user interface indicator for positive evidence of current flow through the body.

All features are patented in a diverse range of micro current devices.



Intellectual Property:

Registered Trademark

Microlief®

Patents

U.S. Patent No. 6,408,211

U.S. Patent No. 6,606,519

European Patent Pending No. EP1294443 B1 (19 Countries}

Canadian Patent Pending No. 2,410,342

Mexican Patent No. 231986

Brazil Patent P10111738-6

Technology Approvals

The Microlief® MCT Patch is approved as a Class II medical device by the FDA for over-the-counter sales. The company has enjoyed significant success in obtaining approvals internationally as well.

Approvals

U.S. FDA Class II medical device- K013167 (1/30/2002)

U.S. FDA Class II medical device- K090042 (5/6/2009)

U.S. FDA Class II medical device- K130114 – OTC Sales (4/16/2013)

U.S. FDA Class II medical device – K151995 (10/5/2016)

European Union EC Directive Reg. No. CE594280 (28 Countries).

P.R. of China SFDA Approval No. 20042261127

Korea KFDA Approval No. KTC-BAA-140183

Canada CMDCAS Approval No. 91710

Brazil Registration No. 59.053.488/0001-68

Clinical Studies

FDA. Approved Protocol Study for Usability completed at Indiana Spine Clinic.

IRB: St. Vincent Hospital Research and Regulatory Affairs Review Board.

Aim Shams University – Cairo, Egypt Effects of Micro Current Therapy on Post Operative Pain in patients of Total Knee Arthroplasty. Results:60% reduction in pain on Day 1, 90% reduction in pain on Day 10.

Bradley Memorial Hospital – Southington, CT Open Study for Fibromyalgia Support Group -Results:73% reported good to significant improvement.

University of Utrecht Pain Center – Netherlands Double blind, Crossover, Placebo Study. Effects of Micro Current Therapy on Chronic Back Pain Results: 100% response to treatment indicating reduction in pain level and dosage and frequency of medication

Effectiveness/Safety/Benefits

Product has been on the market since 2002. Millions of units have been distributed through various outlets.

No reports of adverse events.

Average user has noticeable decrease in pain in less than 24 hours.

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