



## Evidence Based Natural Medicine

### ARTREX<sup>®</sup> Cream Product Profile

[bioved.com](http://bioved.com), [biovedproducts.com](http://biovedproducts.com)

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# The Need for Global Health is Never going to change



**Bioved Founder and CEO  
Deepa Chitre, MD**

**BIOVED PHARMACEUTICALS was built to address this Global Need.**

**A Need which is a universal fact and translates to Bioved's sustaining opportunity. We consider it our responsibility.**

**Our products are based on the proven science of Ayurveda and our primary manufacturing and raw materials are from the birthplace of Ayurveda, India. Our extraction process is US patented, and our manufacturing facilities in US, Canada and India are at US cGMP and WHO-GMP (Current Good manufacturing Practices).**

**We have effectively integrated the past and the present to provide most effective products for the future of your health.**

**Before companies like Rockefeller mass produced the Active Ingredients from plants to serve and monetize global markets – there were plants in every community, country, race and religion. The active ingredient model has resulted in more side effects than remedies over time. This can now be replaced with safe and effective natural options!**

# Bioved Pharmaceuticals, Inc., USA

and subsidiary Bioved Pharmaceuticals Pvt., Ltd. India

*Bio = Life*

*Ved = Knowledge*

*Bioved = Knowledge of Life*

Bioved is a 'Discovery Platform' for safe and effective, natural, validated Plant-based Nutraceuticals and Over The Counter products from the Science of Ayurveda

# N/Rx<sup>®</sup>: Bioved Proprietary Platform

Natural Products Validated to Rx Standards

- Innovative, Accelerated and Cost-effective



- **Development of Rx, OTC and Nutraceutical products**
  - From natural plants
  - Effective and Safe
  - **US FDA registered and audited Laboratories in India**
  - **US Patented process of extraction of bio-active fractions**
  - Validated to prescription levels in
    - Chemistry
    - Biological studies
    - Pharmacology
    - Toxicology – in-vitro, in-vivo and genotoxicity
    - Phase I, II and III Clinical Studies
    - Mechanism of action
    - Pharmacokinetics and Bioavailability
    - Analytical Method Validation
    - No microbial contamination, pesticide residues, heavy metals
- **Good Manufacturing Practices - WHO & cGMP – US, Canada, India**

# Our Hero Product for everyone – young and old

## The Pain is over with ARTREX<sup>®</sup> Cream



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# US FDA Approved **Topical Pain Relief**

**Relieves aches and pains of joints and muscles associated with**

- **Arthritis**
- **Simple backaches**
- **Sprains and strains**
- **Sports injuries**
- **Bruises**
- **Spondylitis**
- **Osteoarthritis of large joints, spine & hands**



# Regulatory Approvals

- **US FDA National Drug Code # for Over The Counter Products (remember this is a natural product, so this is big)**
- **Health Canada approval with Natural Product Number with full claims (this is also big)**
- **India FDA Approval as Over The Counter product and as an Ayurvedic product**
- **Health Safety Authority, Singapore approval as Over The Counter Natural product**

# ARTREX<sup>®</sup> Cream Ingredients

## Natural essential oils in cream form –

- Camphora officinarum (Camphor)
- Mentha piperita (Menthol)
- Pinus longifolia (Indian pine)
- Zingiber officinarum (Ginger oil)
- Oil of Wintergreen (Methyl salicylate)
- Eucalyptus oil
- Lemongrass oil
- Cinnamon oil
- Thymol
- Rose oil

# ARTREX<sup>®</sup> Cream Ingredients

## Ginger Oil

*Zingiber officinale*  
Local stimulant,  
anti-inflammatory,  
analgesic

## Indian Turpentine oil

*Pinus Longifolia*  
Anti-inflammatory  
analgesic, skin  
penetration

## Menthol

*Mentha piperita*  
Cooling, pain relief,  
muscle, relaxant

## Camphor

*Camphora officinarum*  
Analgesic,  
counter-irritant and  
rubefacient

## Rose Oil

*Rosa centifolia*  
Anti-inflammatory,  
moisturizing soothing  
hydrating

## ARTREX<sup>®</sup> Cream



## Thymol

*Ptychotis ajowan*  
Relieves rheumatic  
and neuralgic pains

## Oil of Wintergreen

*Gaultheria fragrantissima*  
Irritant, increases  
blood Flow for  
warmth & heat

## Eucalyptus Oil

*Eucalyptus globulus*  
Anti-inflammatory,  
analgesic  
anti-oxidant

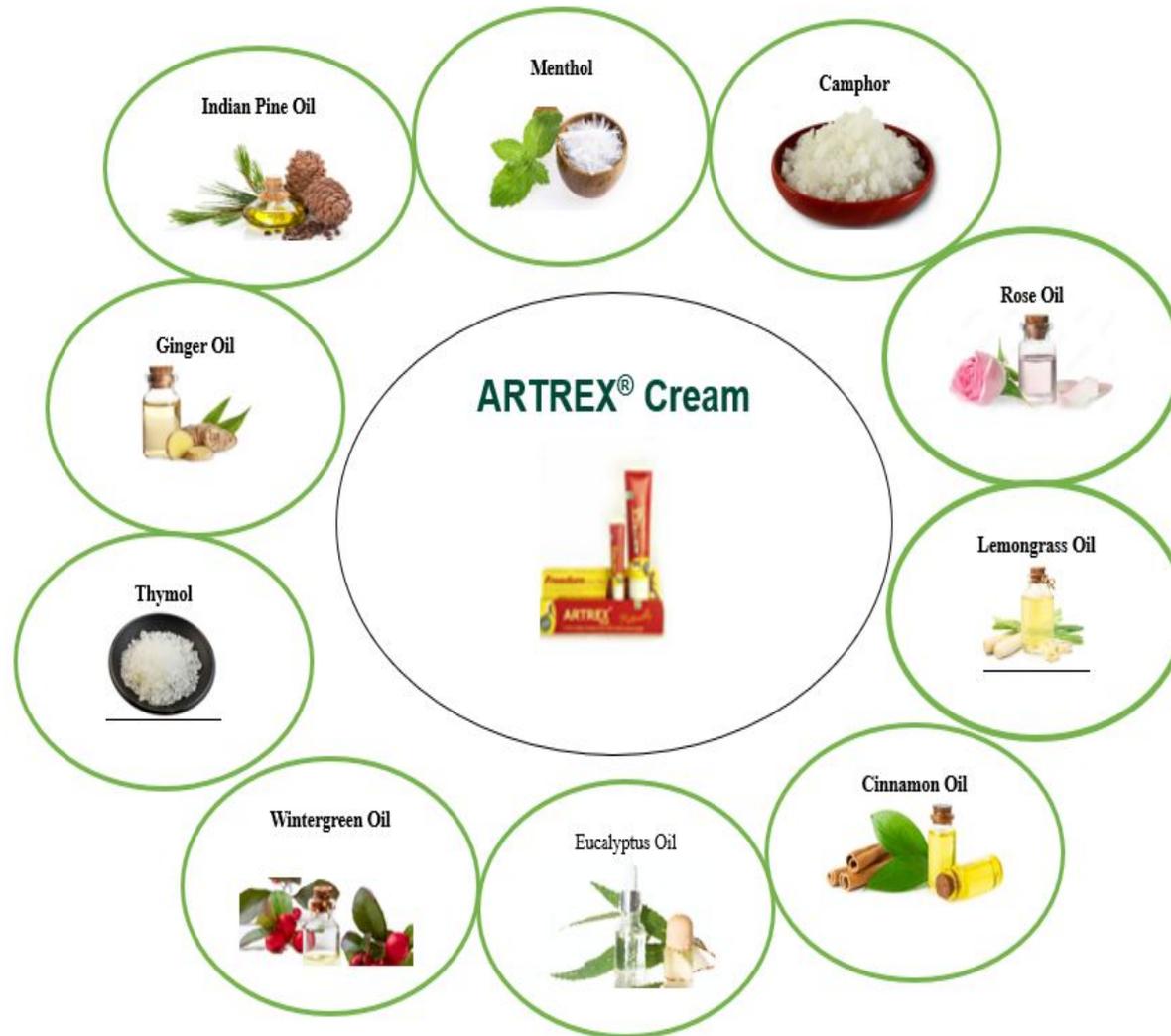
## Cinnamon Oil

*Cinamomun cassia*  
Anti-spasmodic,  
increases bioavailability of  
other constituents

## Lemongrass Oil

*Cymbopogon citratus*  
Relieves pain and  
inflammation

# Natural Sources of ARTREX<sup>®</sup> Cream Ingredients



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# Effective Pain Relief

- **Clinically tested in Osteoarthritis and in Non-specific Bone & Joint pain**
- **Fast-acting – pain relief in 10-15 minutes**
- **Deep penetrating**
- **Long lasting for several hours or overnite**
- **Non-staining**
- **Pleasant odor**
- **Soft supple emollient feeling - esthetically pleasing**
- **No burning, heat or cold feeling**
- **Safe for use multiple times a day**
- **For extended use**
- **Safe and effective in pregnant and lactating women**

# ARTREX<sup>®</sup> Cream

Particle Size->95% globules <5 microns for better penetration

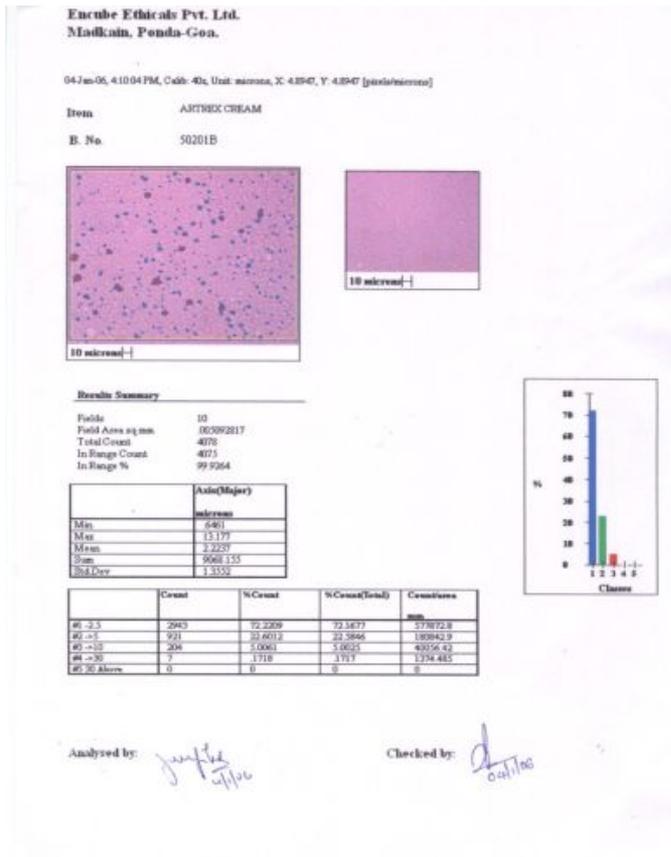
Safe and effective in Multiple studies

## Clinical Studies

- Double-blind Placebo-controlled Randomized Clinical Trial in Osteoarthritis
- Double-blind Placebo-controlled Randomized Clinical Trial in Non-specific Bone and Joint Pain

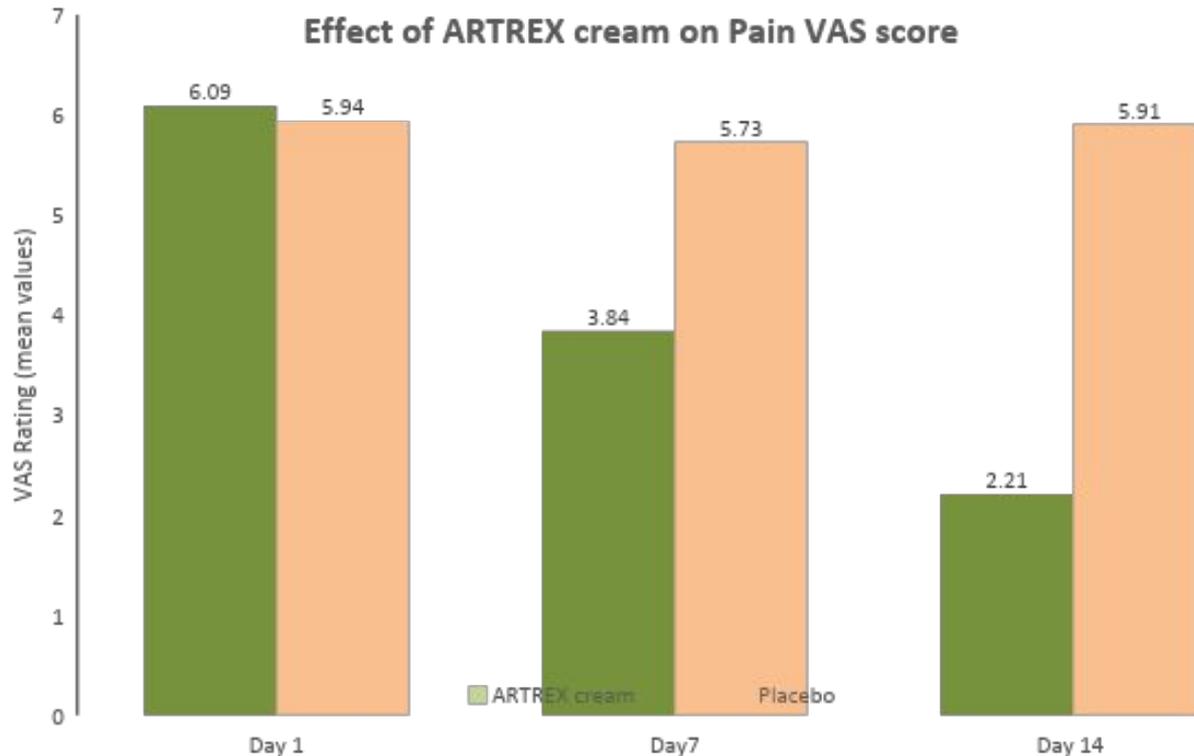
## Pre-Clinical Studies

- Chemistry
- Stability studies to support 36-month expiration date
- Analytical Method Validation
- Toxicology or Safety studies
  - Dermal irritation
  - Dermal toxicity
- Pharmacology or Efficacy studies
  - Pain model
  - Paw edema model for Inflammation



# Significant Pain Relief

## Double-blind, Placebo-controlled Randomized Clinical Trial

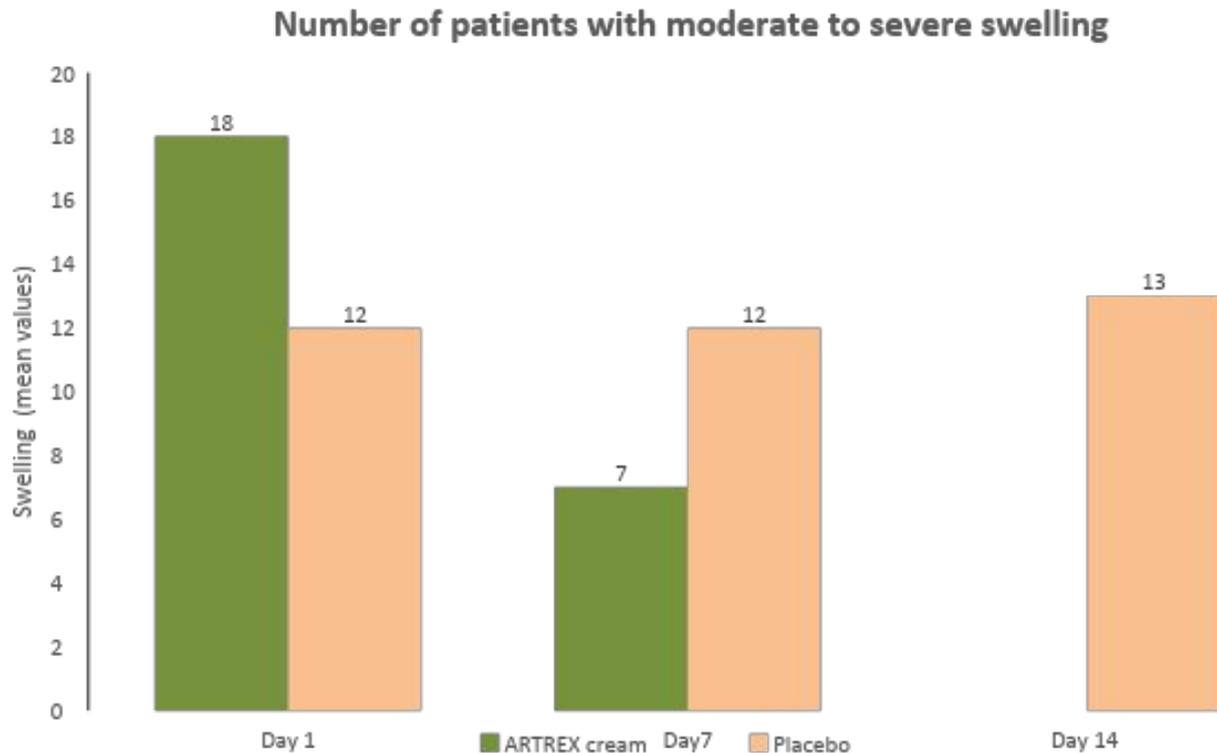


Source: *Ind. J Trad. Knowledge* 5(3), July 2006, 384-87

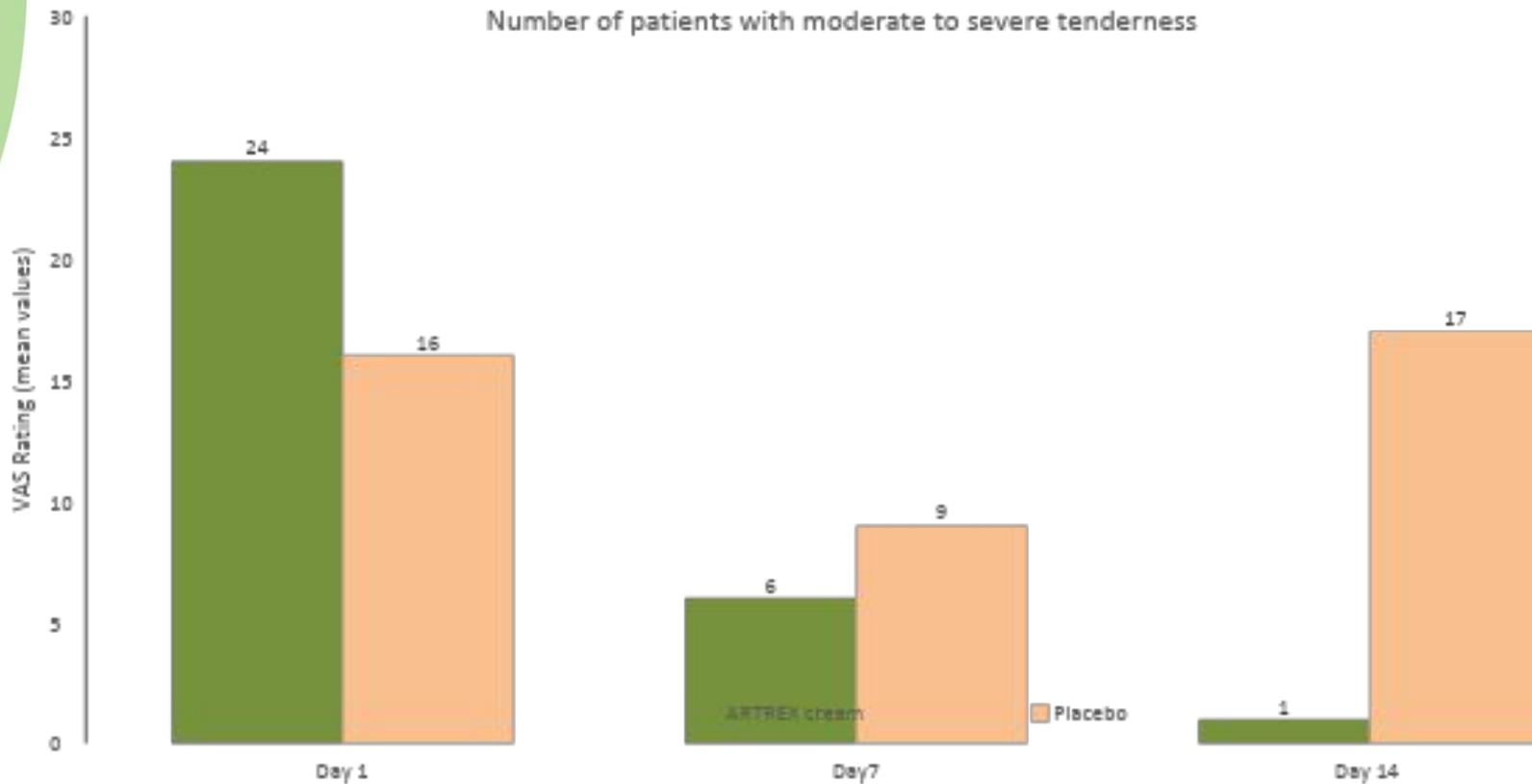
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# Significant Decrease in Inflammation

## Improvement in Swelling and Range of Motion



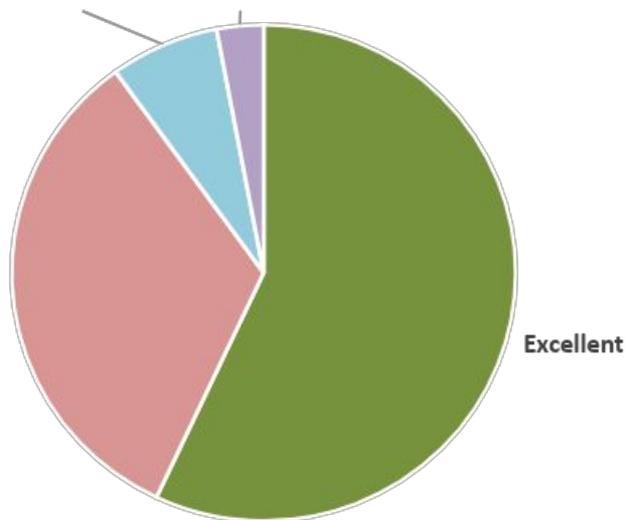
# Significant improvement in Tenderness



# Physicians and Patient's Global Impression

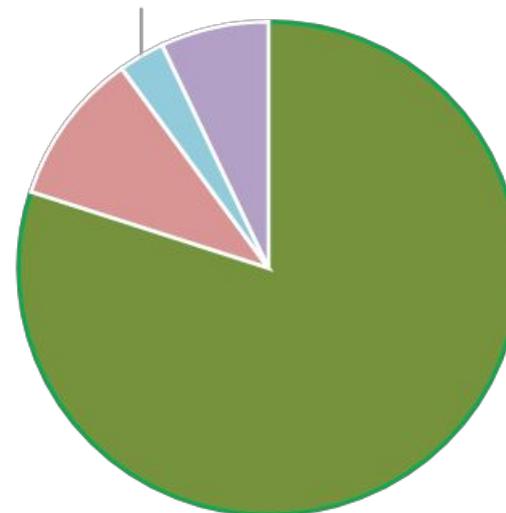
## Double-blind Placebo-controlled study in Osteoarthritis

Physician's global impression (n=30)



■ Excellent ■ Good ■ Poor ■ Nil

Patient's global impression (n=30)



■ Excellent ■ Good ■ Poor ■ Nil

## **ARTREX<sup>®</sup> Cream Pricing**

- **MSRP 60 gm tube with carton - \$14.99**
- **MSRP 2 tube set in single carton - \$25.99**
- **On Air price for 2 tube set - \$23.99**
  
- **Minimum batch size – 500 kg – 8,333 tubes**
- **Lead times – 120 days for first order**
- **Subsequent orders – 90 days**

# Bioved Evidence-Based OTC and Dietary Supplement Products for Human Health



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# Bioved Animal Health

## Tested in Humans, Safe and Effective for Animals



- First from the Science of Ayurveda
- Manufactured in USA
- Great tasting chews – Palatability Studies
- 100% Human grade Natural Actives
- No artificial flavors or preservatives, No GMO ingredients
- Extensive pre-clinical and clinical studies
- Peer-reviewed scientific publications
- Each batch tested to be free from residual solvents, pesticides, bacterial contamination & heavy metals

# ARTREX<sup>®</sup> Natural Topical Analgesic Cream



**Line extensions coming soon – lotion, liniment, patches,  
joint wraps, roll-on and sprays**

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Pharmaceuticals, Inc.

Inspired by Nature, Proven by Science

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