



119 Headquarters Plaza
Morristown, New Jersey 07960
Tel: (973) 984-0900, x214
Fax: (973) 984-5666
Fax: (973) 984-0008
www.plthomas.com
paulan@plthomas.com

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Contact: Eric Anderson
PL Thomas
Phone: 973-984-0900 x 215
Email: eric@plthomas.com

New Study shows 5-LOXIN® AKBA to inhibit inflammation and tissue breakdown *in vitro* and *in vivo*

Morristown, NJ (Month, Day 2006) A study published in this month's issue of *Antioxidants & Redox Signaling* showed the efficacy of 5-LOXIN® AKBA in the inhibition of induced inflammation and inhibition of cartilage-degrading enzymes. 5-LOXIN is a boswellia serrata extract, providing 30% AKBA, the most potent boswellic acid. The study also showed significantly greater benefit with 5-LOXIN compared to ordinary boswellia serrata extract, which provide only 3% AKBA.

According to PLT President Paul Flowerman, "This is an important study affirming 5-LOXIN® efficacy in several models, further developing the body of evidence supporting the Ayurvedic herb boswellia." He continued, "Our partner Laila Impex has utilized state of the art technology to advance traditional Ayurvedic plants."

Previously, 5-LOXIN was shown to inhibit the activity of matrix metalloproteinases (MMPs), a group of enzymes that are involved in the breakdown of connective tissues. In this study, 30% AKBA potentially prevented the induced expression and activity of MMPs in human microvascular Cells, the cells that make up human blood vessels.

The researchers then tested 5-LOXIN® 30% AKBA *in vivo*, measuring the prevention of induced inflammation in rat paws, compared to ordinary boswellia extract.

The researchers concluded, "In all experiments, both *in vitro* and *in vivo*, 30% AKBA was more effective than 3% AKBA."

Boswellia serrata (frankincense) has been used in traditional Ayurvedic medicine for treatment of inflammation since antiquity, and has been supported clinically. For example, a recent randomized double-blind placebo-controlled study of boswellia in 30 patients for 8 weeks reported significant decrease in knee pain, increased knee flexion, and increased walking distance. The frequency of swelling in the knee joint was significantly decreased.

5-LOXIN® works by inhibiting an inflammatory enzyme called 5-lipoxygenase (5-LOX). While not as well recognized as the COX-2 enzyme, it plays a significant role in the expression of inflammation by inhibiting leukotriene biosynthesis. 5-LOXIN® has also been

shown in published research to inhibit MMPs and inhibit the expression of the inflammatory mediators I-CAM and V-CAM.

Laila Nutraceuticals is a leader in process development for standardized herbal extracts and phytochemicals. LN is a primary manufacturer of these technologies, and supports this work with patents and publications.

PLT has 50 years experience supplying high quality raw materials from around the world and delivers customized solutions to the Food, Nutraceutical and Cosmeceutical industries.

For more information, please contact Eric Anderson at eric@plthomas.com.

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