

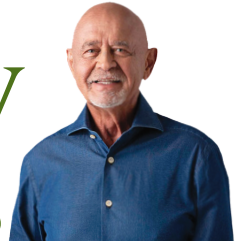
# Boswellia: An Amazing Gift for Your Health

If you were looking for one of the world's most effective natural medicines, you couldn't do better than to select boswellia. Native to India, resin from the boswellia tree is considered the beneficial part of the plant, and gathering it is a very 'hands-on' form of harvesting. When the bark of the tree is scraped, it secretes a resin called "tears". This resin is better known as frankincense.

While the use of boswellia resin dates back thousands of years in Ayurvedic medicine, it is only in recent decades that the full potential of extracted boswellic acids

has been studied in earnest. Unlike conventional drugs which usually target one pathway, boswellia affects multiple pathways in the body. But its most important benefit is probably its ability to block a particular inflammation pathway called the 5-LOX (5-lipoxygenase) pathway. 5-LOX inflammation is associated with many conditions, including allergies, asthma, arthritis, cancer, and digestive diseases including irritable bowel syndrome (IBS), Crohn's disease, and celiac disease.

## Terry Talks Nutrition<sup>®</sup>



### TERRY'S BOTTOM LINE

The causes of all disease really narrow down to two factors: inflammation and oxidation. Whether you're dealing with arthritis pain, asthma, IBS, or even cancer, you need to get those two factors under control.

Over-the-counter and prescription drugs can relieve inflammation, but at a heavy cost. The risks to your liver, stomach, brain, and overall well-being are too great to use them in only the most limited ways. But one of my favorite botanicals, boswellia—properly extracted and standardized—can help you overcome health issues every day—and without risk.

- **Fights 5-LOX inflammation—like nothing else can**
- **Inhibits tumor growth**
- **Stops asthma, allergies, COPD, and other respiratory disease symptoms**
- **Fights joint pain from arthritis**
- **Soothes digestive disease symptoms of IBS, IBD, Crohn's, and colitis**

### HERE IS THE FORMULA I SUGGEST:

Boswellia (*Boswellia serrata*) 500 mg  
 Gum Resin Extract standardized to contain  
 ≥ 70% Total Organic and Boswellic Acids  
 with AKBA ≥ 10%, with ≤ 5% beta-boswellic acids

## Inflammation—The Root of Chronic Disease

### Asthma, Allergies, Bronchitis, COPD

Boswellia has been shown to stop the reactive inflammation response that creates asthma and allergy symptoms, and reduces inflammation in lung tissue.



### Heart Disease

Chronic inflammation and oxidation is a frequent cause of heart diseases.



### IBS, Irritable Bowel Disease

Inflammation in the digestive tract is responsible for the painful, unpredictable symptoms of many intestinal diseases, including autoimmune conditions. Boswellia stops inflammation triggers, reducing the incidences of the inflammatory "cascade effect" that makes these diseases so difficult to treat conventionally.



### Brain and Memory

Inflammation can damage brain cells, promoting Alzheimer's disease and other cognitive problems. Boswellia can increase neuronal volume and boost learning and memory.



### Cancer and Tumor Growth

Inflammation alters the way cells divide and sets in motion the conditions for tumors to form and grow. By eliminating inflammation, you take away one of the major causes of cancer throughout the body.



### Joint Pain

Inflammation causes pain and destroys joints. Because boswellia stops inflammation, it can help joints heal faster and keep damage from getting worse. Combined with curcumin, it has been shown to relieve osteoarthritis pain better than prescription drugs.



Inflammation doesn't just cause joint pain—it causes disease throughout the body, including cancer. Fighting inflammation effectively can make the difference between life and death. Boswellia fights inflammation across many pathways, including 5-LOX activation.

More...

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Boswellia is also being investigated in cutting edge cancer research and has been shown to have the power to inhibit cancer cell growth. It is the subject of this *Terry Talks Nutrition*.

## Why Stopping 5-LOX Matters

Although when we hear the word “inflammation” we typically think about sore muscles, or allergic responses—and we’d be right—inflammation at a cellular level can very easily be considered the cause of virtually every disease state in the body.

Boswellia is amazingly effective at fighting 5-LOX inflammation. That’s important, because 5-LOX enzyme activity leads to tumor formation and inflammatory digestive, respiratory, and cardiovascular conditions.

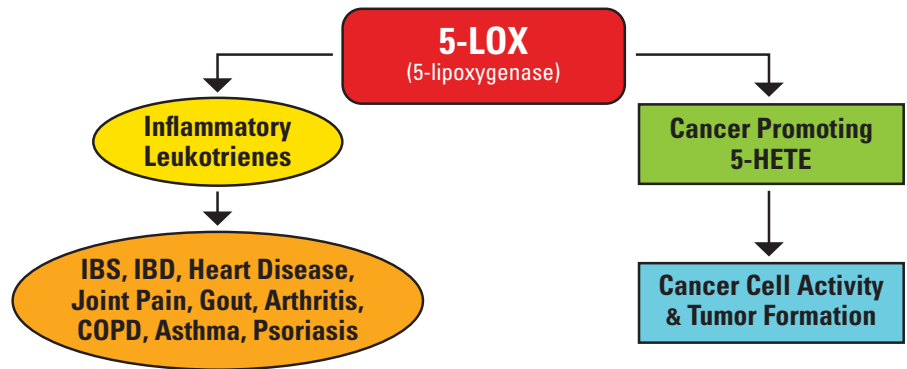
## Boswellia Stops Tumors

Tumor formation is caused by many things, but research has shown that age and environment can cause certain protective genes in the body to go to “sleep.” Some of these genes direct the body to suppress tumors (cancer). That is why cancer risk increases with age—some of the body’s defense mechanisms are inactive.

In a recent study, a group of researchers from Baylor University showed the ability of high-AKBA (acetyl-11-keto- $\beta$ -boswellic acid) boswellia extract to inhibit the growth of tumors in colorectal cells. It does this through a process called DNA methylation, which “wakes up” the sleeping genes that suppress tumor growth. Overall, the high-AKBA boswellic extract stopped the spread of cancer cells, lowered their chances of mutating and spreading, and reduced the survival of the mutated cells that create tumors. But beyond that, the boswellia extract actually reactivates those “sleeping” tumor-suppressing genes—essentially “waking them up”—which can put the body on a path toward healing itself.

Another Egyptian cell study found that boswellia was comparable to doxorubicin and 5-fluorouracil—two chemotherapy drugs for stopping colon and liver cancer cells. Other work has shown that AKBA from boswellia was a primary compound that

## Boswellia Reduces 5-LOX Activity!



Activating this system results in higher levels of certain inflammatory diseases and also cancer tumor growth.

inhibited the growth of leukemia cells, and prostate cancer cells by suppressing the ability of cancer cells to form blood vessels.

Aside from this, boswellia has been shown to reduce fluid (edema) around brain tumors. After radiation treatment, 60% of patients receiving a boswellia extract saw a 75% reduction of fluid buildup.

## Choosing Your Boswellia

Like many botanicals, boswellia contains specific compounds that are associated with the herb’s beneficial effects. I’ve already mentioned AKBA, one of the boswellia’s most powerful components. Based on research, I believe a naturally-elevated level of AKBA is critical.

It’s not unusual to find extracts that have artificially increased (spiked) levels of AKBA, or are essentially *all* AKBA. I don’t think that’s necessary, because there are other compounds in the plant that are beneficial, too.

However, I don’t believe that an unstandardized boswellia is the answer either. First, it has very little AKBA per mg. Secondly, one of the naturally occurring compounds in boswellia—beta-boswellic acid—is actually pro-inflammatory. Leaving beta-boswellic acid at its natural levels as you’d find in unstandardized extracts can mean that up to 25% of the herb would have an inflammation-causing compound.

I think a balanced approach is best. The boswellia extract I recommend is standardized so that you’re getting at least 10% AKBA and virtually no beta-boswellic acids. This way, you get the best of both worlds—a true, complete boswellia with all of the good components you need (but not at artificially high levels) with none of the potentially dangerous amounts of beta-boswellic acid.

## Boswellia is a Gift

Boswellia is an amazing natural gift. This one botanical takes care of us in so many ways: it prevents tumors, fights pain, protects the cardiovascular system, and stops digestive diseases. And it does all of this without side effects.

Do your health a favor.  
Give yourself the gift of boswellia.

When in doubt, always consult your physician or healthcare practitioner. This article is intended to provide you with information to maintain your health.