



BOSWELLIA SERRATA

Legendary Frankincense

BOSWpure[®]

Boswellia Serrata

Boswellia Serrata, commonly called Shallaki is a plant known for anti-inflammatory and anti-cancer properties of Boswellic Acids derived from it. It is also a fragrant resin with wide use in incense and perfume manufacturing. This resin has many pharmacological uses. The oleo-gum resin of Boswellia Serrata is complex mixture of lower and higher Terpenoids and carbohydrates. Higher Terpenoids, collectively called the Boswellic Acids are the major fraction of the resin (20-25%).

Resin made boswellia extract has been used for centuries in Asian and African folk medicine. It's believed to treat chronic inflammatory illnesses as well as number of other health conditions. Boswellia actives are available as Boswellia Extract Powder form, AKBA Powder form and Boswellia Oil form.

Chemicals called boswellic acids, found in indian frankincense (Boswellia serrata), may help prevent the cartilage degradation associated with osteoarthritis. The result of clinical research indicate that boswellic acids can rival the anti-inflammatory action of NSAIDs, without their side effects.

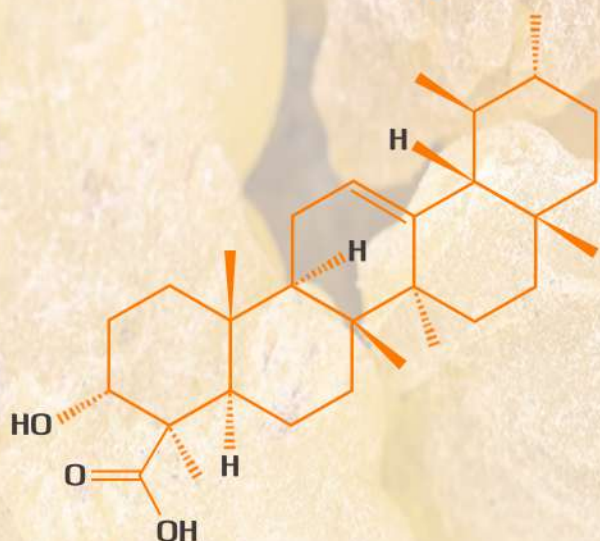
Commercially available boswellia is standardized as an extract to a strength of 60-65 % boswellic acid that includes β -boswellic acid.

For its anti-inflammatory action, only specific boswellic acids known as AKBA having a keto functional group are active. More importantly, it has been shown that other terpenes lacking these functional groups actually reversed and diluted the activity of AKBA. Considering that β -boswellic acid is the major component of commercial boswellia extract.

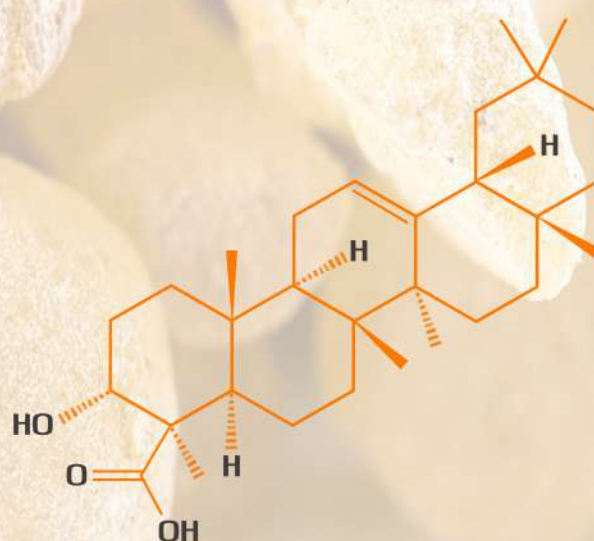
Actives of Extract SUNPURE offer:

- Boswellic Acid 65%–85%
- AKBA 10% - 90%
- Boswellia Essential Oil
- Boswellia Complex

Active Compounds



ALPHA BOSWELLIC ACID



BETA BOSWELLIC ACID

Specifications

US DMF NO: 033290

BOSWELLIA EXTRACT

CHARACTERISTICS

ASSAY	65% - 85% boswellic acid
DESCRIPTION	off white to light brown powder
SOLUBILITY	oil soluble
PLANT PART USED	oleo-gum resin
IDENTIFICATION	positive for boswellic acid

APPLICATIONS

- boswellia extracts have been demonstrated to be useful for bowel related inflammatory responses, and to improve physical function in subjects with joint and tendon challenges.
- the bioavailability of boswellic acids from is greatly optimized both at the plasma and at the tissue level.
- in ayurvedic medicine indian frankincense (boswellia) has been for hundreds of years for treating arthritis.
- because of its anti-inflammatory properties, boswellia reduces joint swelling pain, stiffness and other symptoms of rheumatoid arthritis and osteoarthritis.
- the herb is helpful in treating respiratory disorders like bronchitis and asthma.

BOSWELLIA SERRATA AKBA

CHARACTERISTICS

ASSAY	10% - 90% AKBA
DESCRIPTION	off white to creamish colored hygroscopic powder
SOLUBILITY	oil soluble
PLANT PART USED	oleo-gum resin
IDENTIFICATION	positive for boswellic acid

APPLICATIONS

- AKBA are selective 5-lipoxygenase inhibitor and then capable to manage the inflammatory response function through leukotriene inhibition.
- but recent finding have shifted the focus on β -boswellic acid, the major triterpenoid from the gum-resin,
- and its capability to modulate the inflammatory response enzymes cathepsin (catG)⁵ and microsomal prostaglandin E synthase (mPGES)-1,⁶ suggesting that β -boswellic acid plays a major role while the whole bouquet of triterpenoid acids is important for the beneficial effects of boswellia.

BOSWELLIA ESSENTIAL OIL

CHARACTERISTICS

APPEARANCE	liquid
COLOUR	pale yellow or pale amber greenish
ODOUR	strongly diffusive, fresh, terpenely, green and balsamic
PLANT PART USED	oleo-gum resin

	value	min	max
Refractive Index @ 20 °C (ISO 280)	1.4750	1.4700	1.4800
Optical Rotation @ 20 °C (ISO 592)	-10.00°	-20.00°	+20.00°
Specific Gravity 20/20 (ISO 279)	0.870	0.860	0.890

APPLICATIONS

- used in soap and fragrance industry
- boosts immune system
- improves oral health
- regulates menstruation
- prevents gas buildup
- reduces scars
- delays aging
- acts as tonic
- stimulates urination
- keeps uterus healthy



How Boswellia Active Keeps You Healthy

Maintains and supports healthy joints

Extract of Boswellia oleoresin containing an appropriate amount of boswellic acid can help maintain healthy joint tissue. Good quality Boswellia do this by addressing the release of compounds called leukotrienes. (Leukotrienes are involved in the body's normal inflammation response.) It may also help maintain the integrity of the cartilage. (Cartilage is a type of connective tissue that provides flexibility at joints.)



CERTIFICATIONS



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