Holistic Resin As Perfumery Plays With Chemistry

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ABSTRACT

Burning Benzoin aka Loban Dhoop is very powerful for removing negative energy, and purifying your space. It cleanses negativity from the mind and helps you focus and concentrate! Burning loban - it calms you, makes you home feel cleansed and peaceful, and smells simply good: make you feel good and comfortable!

Keywords:
Dhuno, Loban, Benzoin, Boswellic acid, Resin, Rosin, Terpenes
INTRODUCTION:
Dhuno, an Indian form of frankincense, is a plant resin of Sal tree. Frankincense (also known as olibanum) is an aromatic resin used in incense and perfumes, obtained from trees of the genus Boswellia in the family Burseraceae. The word is from Old French franc encens ('high-quality incense'). There are several species of Boswellia that produce true frankincense: Boswellia sacra (syn. B. bhaw-dajiana, syn. B. carteri), B. frereana, B. serrata (B. thurifera, Indian frankincense), and B. papyrifera. Resin from each is available in various grades, which depend on the time of harvesting. The resin is hand-sorted for quality. In polymer chemistry and materials science, resin is a solid or highly viscous substance of plant or synthetic origin that is typically convertible into polymers. Resins are usually mixtures of organic compounds. This article focuses on naturally occurring resins.[1]

Chemistry: Most plant resins are composed of terpenes. Specific components are alpha-pinene, beta-pinene, delta-3 carene, and sabinene, the monocyclic terpenes limonene and terpinolene, and smaller amounts of the tricyclic sesquiterpenes, longifolene, caryophyllene, and delta-cadinene. Some resins also contain a high proportion of resin acids. Rosins on the other hand are less volatile and consist of diterpenes among other compounds.[2] Plants secrete resins for their protective benefits in response to injury. The resin protects the plant from insects and pathogens. Resins confound a wide range of herbivores, insects, and pathogens, while the volatile phenolic compounds may attract benefactors such as parasitoids or predators of the herbivores that attack the plant.[3]

These are some of the chemical compounds present in frankincense:

Acid resin (6%), soluble in alcohol and having the formula \( C_{20}H_{32}O_4 \)
Gum (similar to gum arabic) 30–36%
3-acetyl-beta-boswellic acid (Boswellia sacra)
Alpha-boswellic acid (Boswellia sacra)
Incensole acetate, \( C_{25}H_{34}O_3 \) [Incensole is an organic compound that is naturally found as its acetate ester in some frankincense. It is a diterpene alcohol, with an oily appearance. This compound can be synthetically prepared from cembrene. The formula of insensole is \( C_{25}H_{34}O_2 \). Incensole acetate is the O-acetyl derivative. It acts as a TRPV3 agonist. Its effects on animals have been studied.] \( (1R,2R,5E,9Z)-1,5,9\)-trimethyl-12-propan-2-yl-15-oxabicyclo[10.2.1]pentadeca-5,9-dien-2-ol Phellandrene \( (\alpha): \) 2-Methyl-5-(propan-2-yl)cyclohexa-1,3-diene; \( (\beta): \) 3-Methylidene-6-(propan-2-yl)cyclohex-1-ene

Among various plants in the genus Boswellia, only Boswellia sacra, Boswellia serrata and Boswellia papyrifera have been confirmed to contain significant amounts of boswellic acid. The following references for a comprehensive overview of the chemical compounds in different frankincense species. Boswellic acids are a series of pentacyclic terpenoid molecules that are produced by plants in the genus Boswellia. Like many other terpenes, boswellic acids appear in the resin of the plant that exudes them; it is estimated that they make up 30% of the resin of Boswellia serrata. While boswellic acids are a major component of the resin, the steam or hydro distilled

Figure-1: Dhuna
frankincense essential oil does not contain any boswellic acid as these components are non-volatile and too large to come over in the steam distillation process (the essential oil is composed mainly of the much lighter monoterpenes and sesquiterpene molecules with small amounts of diterpenoid components being the upper limit in terms of molecular weight).

The boswellic acids are organic acids, consisting of a pentacyclic triterpene, a carboxyl group and at least one other functional group. Alpha-boswellic acid and beta-boswellic acid, C₃₀H₄₈O₃ both have an additional hydroxyl group; they differ only in their triterpene structure. Acetyl-alpha-boswellic acid and acetyl-beta-boswellic acid, C₃₂H₅₆O₄, replace the hydroxyl group with an acetyl group. Other boswellic acids include the keto-boswellic acids and their acetyl counterparts.[4]

**Uses:** Dhuno is considered a purifier, a reason it's offered to gods. However, it had a traditional use in daily life too. Dhuno purifies the air and hence was used as a traditional mosquito repellent. Many households still use this. Dhuno, an Indian form of frankincense, is a plant resin of Sal tree. This Dhuno is available in a combination of solid and powder form and this is used in Bengali's biggest festival Durga Puja. This Dhuno is used to create fragrant smoke during Bengali Pujas by applying the powder form of it on burning coconut husks. Burning Benzoin aka Loban Dhoop is very powerful for removing negative energy, and purifying your space. It cleanses negativity from the mind and helps you focus and concentrate! Burning loban - it calms you, makes you home feel cleansed and peaceful, and smells simply good: make you feel good and comfortable! As per studies, the essential oils present in the incense is said to help clear nasal blockages and improve the air around you, replicating the benefits of aromatherapy.

Hence, it is particularly kept and used often in alternate healing centers. Helps get rid of Germs.[5] Health benefits of lighting agarbattis. Lighting incense sticks, agarbattis, dhoop is a common practice in most Indian households. Helps get rid of Germs. Speeds up the healing process. Clears headaches and migraines. Makes you less anxious. Sleep better. Increase calm and focus. Reduce stress and anxiety. Aid sleep. Complement a yoga or meditation practice. Stimulate creativity. Purify your space. The simple pleasure of enjoying a lovely scent.

**Conclusion:** Dhuna is the best energy purifier of Atmosphere. Using of Loban has spiritual and customary secret in India to elevate the energy level. From the times of Saints and Kings Loban are been used for fulfilling the rights and rituals. Sambrani is frequently used in religious ceremonies and is measured to have a great impact on cleansing and releasing the human body energy centers/ meridians. It is pure, clean and pleasing for cleansing weather you wish to clear a room or simply for cleaning your atmosphere. A study states that Loban helps in uplifting the inspiration and creativity. Benzoin can help attract love, provide psychic protection, wisdom, aids the memory, and helps ease depression. While doing puja burn a dhuna and offer to divinity, upon the accomplishment of puja take dhoop on your hand and spread it over all at your house and around you, it will remove all negative vibes and energy from around you. It also works as a natural pest repulsive. It is placed inside the container with a hole, which allows

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**Figure-2:** Alpha Boswellic Acid, Beta Boswellic Acid, Alpha Phellandrene, Beta Phellandrene, Incenseole
the smoke to outflow. Lit sambrani cones can be placed in these types of container, that the ashes can start inside and your room can be clean, tidy and you can assistances from the pure fragrances. Not only Loban is used in Hindu Culture, but it is also given same importance in Islamic Culture. Loban is basically imported from Thailand, Malaysia and from the Island of East Indies. It also consist of medicinal benefits, it can relieves constipation and stomach pain. It also helps in digestion of food and can fight against diarrhea. It has a capacity of healing wounds, sores of eyes. It also helps in linctus and decreases the production of mucus. Loban is a best inflammation of relieves of throat problems and heals the wound of the tongue. If we daily burn Loban and sit in front of it and inhales the fragrance of Loban, it helps to enhance the memory power. It also helps internally; it tones up the heart, stomach and increases Libido. It also effective to get relief from Toothache. It is also suggested by the Doctors and Dentists that it removes bad smell of sweat, relives the inflammation of urinary tract and is useful in pulmonary tuberculosis. Benzoin is great all-purpose magical incense, it also helps to warm and open heart center. It also helps in cleansing of aura. It is said to be the best inspiration and creativity substance.

REFERENCES: