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# The phytochemical components of caesalpinia sappan in treating respiratory ailments through an herbal soup in addition with sensory evaluation

H.M. Moyeenudin  , R. Thiruchelvi, A. Wilfred Lawrence, R. John Williams

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## Highlights

- The phytochemical components of the herb caesalpinia sappan is identified.
- This examination gives proof to the adequacy of the conventional utilization of *Caesalpinia sappan* as an antibacterial and antiviral agent.
- The phytochemicals present in C. sappan have been used customarily to heal numerous sicknesses.
- The properties of C. sappan contains flavonoids, alkaloids prove the availability of poly nutrients,
- The alkaloids present in C. sappan has improved the medicinal value along with flavonoids and terpenoids.
- The chemical compounds have anti-inflammatory, antibacterial and antiviral characteristics, though Zingiber officinale has already proved to be better in treating cough and flu.

## Abstract

The pestilence of viral infections is a worldwide scenario, urging a critical need of most encouraging antivirals treatment during this pandemic situation. A portion of the viral illnesses can be restored by affirmed antiviral medications, yet for other people, actually don't have any antibodies or medications accessible. Thus, foods are prepared with medicinal ingredients as a home remedy could be a better option. Likewise, *Caesalpinia sappan* has natural characteristics to provide sweetness, sourness, flavor, colour with medicinal properties, as in some circumstances selective ingredients are added for medicinal purpose. *Caesalpinia sappan* (*C. sappan*) Wood is obtained from prickly thorny tree, which has yellow buds and blossoms, it is mostly used in Ayurveda and also in making herbal drink at Kerala of South India. The bark of this tree has medicinal properties and the various studies of this *C. sappan* has proved that the bark of this tree assists in purifying the blood with its antiviral and antimicrobial properties. The purpose of this study is to identify the phytochemical properties of *C. sappan* that acts as an antiviral and antibacterial agent, also as a coloring agent in food with the addition of *C. sappan* bark extract to Herbal Soup. Secondly it is focused on knowing the quality of Herbal Soup through sensory evaluation.

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## Keywords

*Caesalpinia sappan*; Anti-inflammatory; Antiviral; Herbal Soup

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