

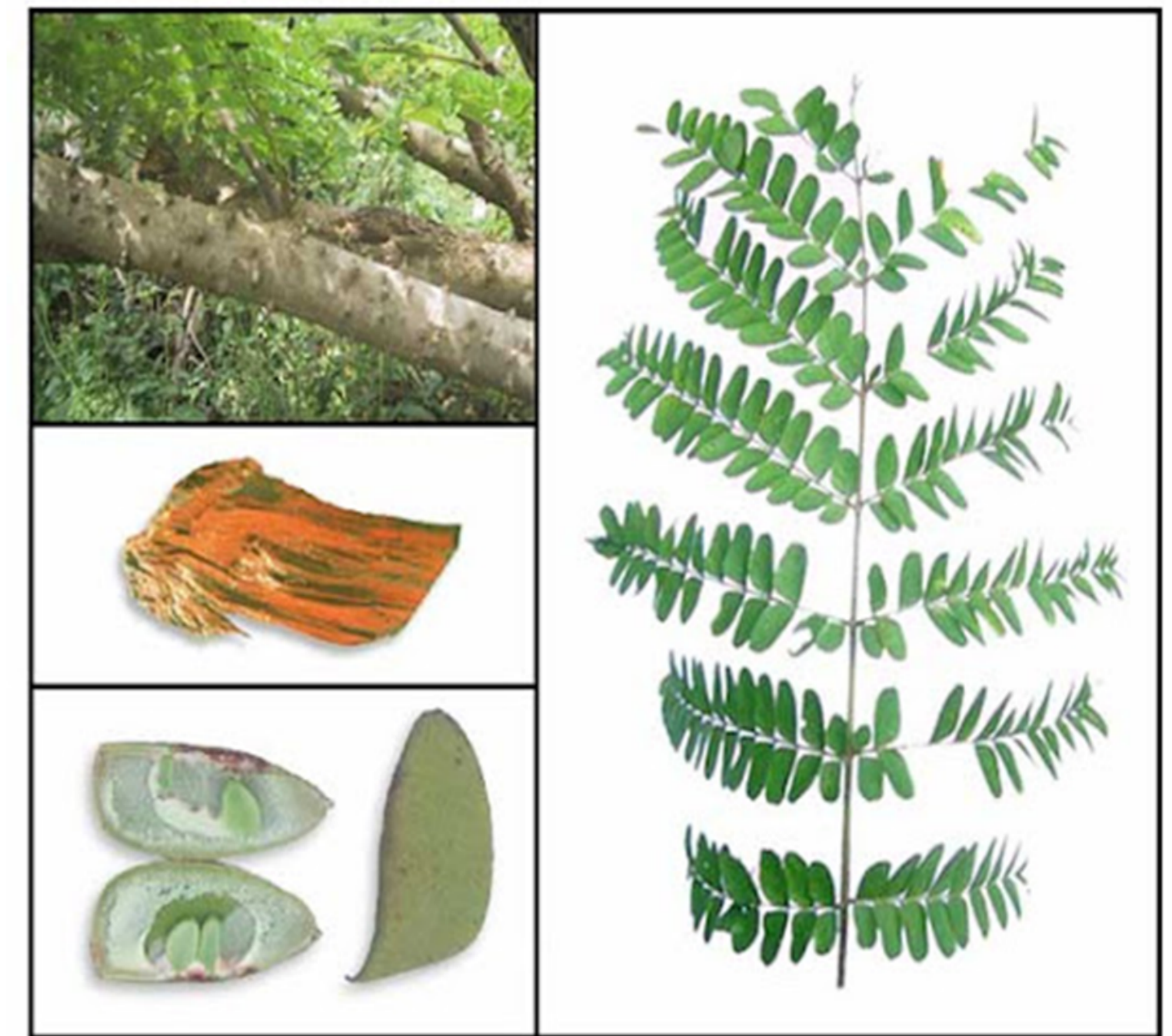
FORTIFIED FUNCTIONAL DRINK OF SAPPAN WOOD (CAESALPINIA SAPPAN)

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Functional beverages are drinks that impart health benefits to consumers. These drinks are fortified with several ingredients with various health advantages. Some of the major ingredients of functional beverages include vitamins and minerals, bacterial strain to promote gut health, herbs, etc.

SAPPAN WOOD (CAESALPINIA SAPPAN)

- Sappan wood is a tropical hardwood tree found in southeast asia.
- Sappan wood contains a water-soluble compound ,which imparts a red colour named **brazilin**.
- Sappan wood is utilized to produce dye for fabric & colouring agent in food & beverages.
- As a valuable medicinal plant, the tree is also known for its antioxidant, anti-inflammatory, anti-cancer, cardioprotective , antimicrobial properties.
- It has been observed that sappan wood contains various bioactive compounds, including brazilin, brazilein, sappan chalcone & protosappanin.



1. We choose sappan wood as a main herb in our drink.
2. **Extraction of Herbal Compounds** : We will extract the primary herbal compounds from sappan wood by decoction process.
3. **Straining**
4. **Preparation of Liquid Base**: We choose a liquid base such as water, fruit juice, coconut water, or a combination thereof. Optionally, add fortifying ingredients like vitamins, minerals, electrolytes, or other functional compounds depending on the desired health benefits.
5. **Mixing and Flavoring**:
6. **sweetner**- we prefer stevia as a sweetner in drink due to its antidiabetic properties.
7. **Flavours** –lemongrass , rosemary
8. **Homogenization**
9. **Packaging**

