## ທະເລາ Soapnut Extract (Sapindus Mukurossi)



Hair care
Skin care
Sun care
Oral care
Anti-microbials
Preservatives
Thickeners &
Conditioners
Natural extracts

Ayurveda (aya meaning "Life" and veda meaning "Knowledge") products have been used throughout India for over 5,000 years. Nisarg manufacture extracts that bring together knowledge and innovation to deliver natural products with ultrahigh purity.

Nisarg Soapnut Extract (sapindus mukurossi) contains high levels of natural saponins. These saponins have detergent / surfactant properties, as they contain both water soluble and fat soluble components.

Soapnut has been used as a washing detergent for thousands of years in Asia and Native America and is a popular ingredient in Ayurvedic shampoos and cleansers. Aqueous extraction is commonly used to produce soapnut powder; this type of extraction process results in a brown powder which can significantly affect the colour of finished formulations.

Nisarg have developed a unique extraction process. This process removes a high level of the dark colouring species, without reducing the water soluble saponins. The resulting soapnut powder has a much lower residual colour than aqueous extracted material, whilst still maintaining its surfactant properties.

Nisarg soapnut may be used as a natural replacement for commonly used synthetic surfactants such as SLES and SLS.

Soapnut can be used in shower foams, shampoos, toothpastes and hair colourants and with a pH in line with skin it can be used to avoid the irritation and dryness associated with many alkaline synthetic surfactants.

The anti-fungal and antibacterial properties of saponins are also important in cosmetic applications, in addition to their emollient effects.

## **Specification**

INCI name : Sapindus Mukurossi

Fruit Extract

Saponin level: > 30%

pH (1% in water) : 4.5—5.5

Product appearance: Off-white cream to

light beige free flowing powder

Water Solubility: > 95(% w/v)

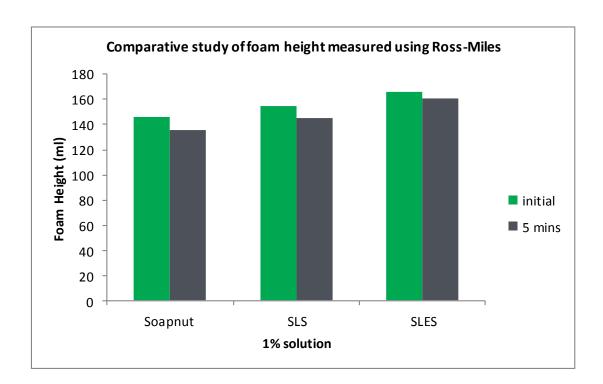


## Foam Generation Tests

The Ross-Miles method for measuring foam height was used to compare 1% solutions of Soapnut, Sodium Laureth Sulfate (SLES) and Sodium Lauryl Sulfate (SLS).

The below chart shows initial foam height and height remaining after 5 minutes. The results show that foam generated using soapnut is almost equal to that generated by SLES and SLS. Foam height (foam stability) after 5 minutes is also comparable.

Overall soapnut foam generation and stability compared favourable to industry standard synthetic surfactants.



Plant name: Sapindus Mukurossi

Part of fruit used : Outer shell Family name : Sapindaceae

Habitat: Lower forests of India

and Nepal

Common name: Reetha or Soapnut

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