

ACS - Sophor BioSurfactant



□ Features

- World first Sophorolipid utilizing Indian Mahua Oil for Fermentation Carbon Source which is non-edible feedstock. Free from the Food Problems. [Patent Pending]
- Ferment manufactured from 100% natural raw material, having high safety and low skin irritation.

Eco-Friendly

100% Natural

*Free from Soil
Pollution*

*Free from Water
Pollution*

Biodegradable

*Yeast * Ferment*

*Degraded completely
within ONE month*

*Less environmental
burden*

Sustainable

*Indian Local
Vegetable Oil*

Mahua Oil / Non-Edible

Application

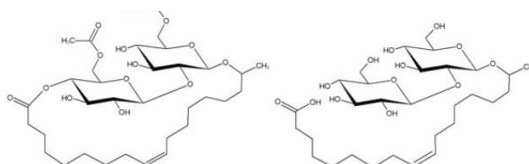
Hair care

Skin care

□ Products Information

INCI Name	Madhuca Longifolia Sophorolipids
Trade Name	Sophorolipids made from fermenttation of Madhuca oil
pH	4.3~6.3

ACS – Sophor



Antimicrobial Activity

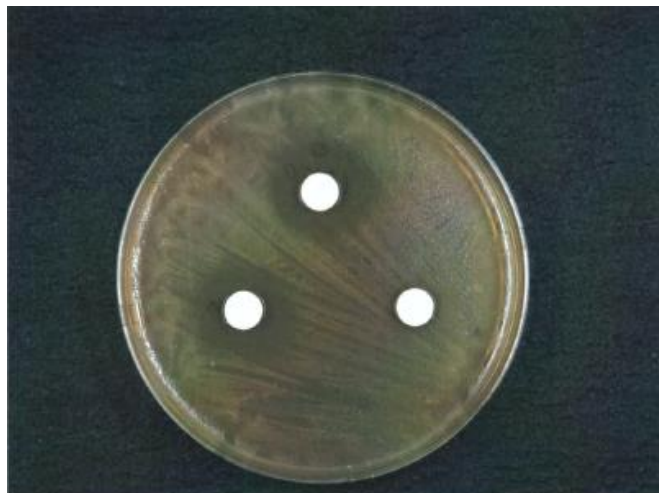
Paper Disc method was conducted with *Propionibacterium acnes* for detecting Antimicrobial Activity.

- Samples
 1. ACS Sophor
 2. ACS Sophor - α
 3. Sophorolipid Acid Form (Powder)
- Culture Conditions

Medium : GAM Agar (Nissui Pharmaceutical Co., Ltd.) **Temp** : 37°C
Culture time : 24hrs.



1. Upper : 10000ppm,
Left : 5000ppm, Right : 1000ppm



2. Upper : 10000ppm,
Left : 5000ppm, Right : 1000ppm

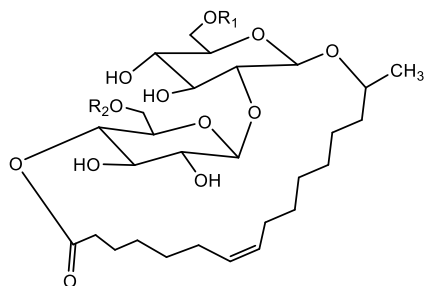


3. Upper : 10000ppm,
Left : 5000ppm, Right : 1000ppm

Conclusion.

After 24hrs. cultivation, the growth prevention circle was observed in sample 1 and 2 (ACS Sophor and ACS Sophor - α) but no activity in sample 3 (Sophorolipid Acid Form) with same concentration.

Done by TechnoSuruga Laboratory Co., Ltd.



(R₁ and R₂ = OH or Ac)