



Sunpure Extracts®
Private Limited

TAMARIND SEED KERNEL EXTRACT POWDER

A NATURAL & GREEN POLYMER



SPECIFICATION

BOTANICAL NAME	:	Tamarindus Indica
INCI NAME	:	Tamarindus Indica Seed Extract
PLANT PART USED	:	Seed Kernel
APPEARANCE	:	Powder
COLOUR	:	White to slight yellow-white
APPLICATION	:	Cosmeceutical
CAS No.	:	84961-62-6



TAMARIND

Tamarind is a multipurpose plant as almost all parts of the tree are used in the chemical, pharmaceutical, cosmeceutical, food and textile industries. Tamarind seeds contain hyaluronic acid whose presence gives the extracts of the seed the ability to keep the skin fresh, moisturized, and reduce fine lines. After removing black skins, the seeds are crushed and go through extraction & purification process.

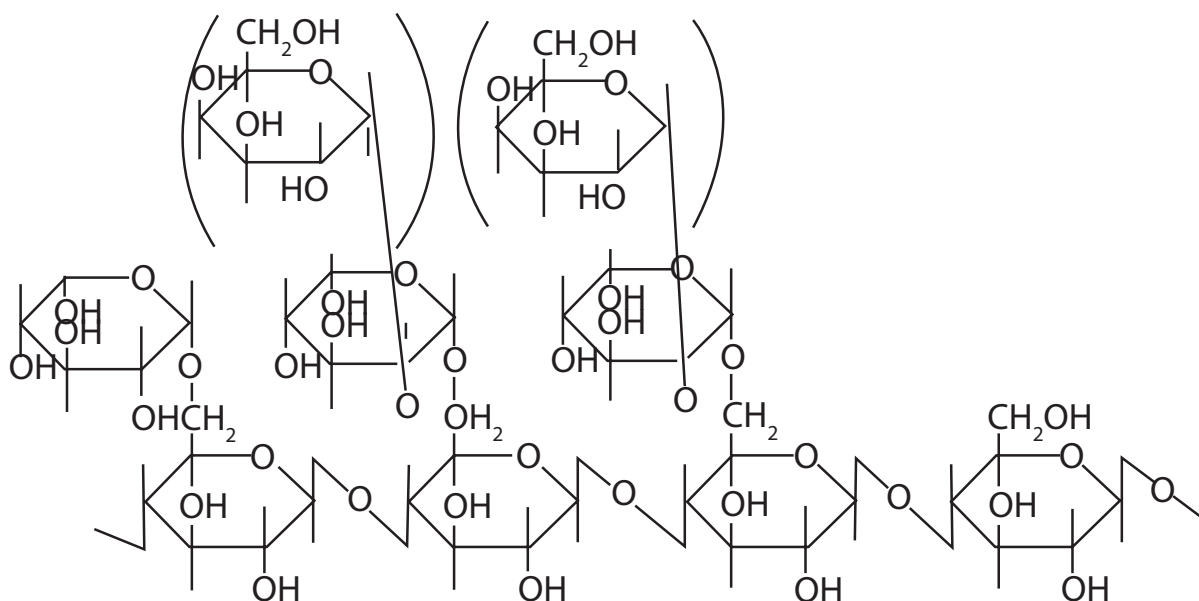
Tamarind for cosmetics is relatively new, however, it has already been recognized as a natural cosmetic polymer in Japan.

ACTIVE CONSTITUENT AND CHEMICAL STRUCTURE

Extracts of tamarind seeds contain xyloglycans, which is used in many cosmetics and pharmaceutical products. It is typically used for treating minor skin rashes.

Tamarind seed polysaccharide (TSP) is a xyloglucan of vegetable origin, recently proposed for the cosmetic and pharmaceutical market as a "green" alternative to hyaluronic acid.

Structural formula of Tamarind seed polysaccharide



Tamarind seed polysaccharides restore hyaluronic acid deficiency occurring in skin due to age-related changes and harmful effects of sunlight (photoaging). They have powerful moisturising properties due to their ability to attract and retain water molecules and are suitable for all skin types.

BENEFITS OF SUNPURE TAMARIND SEED EXTRACT POWDER

Tamarind seeds are generally discarded after extracting tamarind juice. But the minerals and nutrients in the seeds can benefit you in multiple ways.

MAINTAINS SKIN ELASTICITY :

Tamarind seed extract boosts skin elasticity, provides hydration and smoothness. This contains hyaluronic acid that helps in skin moisturization and smoothes fine lines and wrinkles.

STRENGTHENING THE SKIN BARRIER:

By reinforcing the skin's natural barrier, Tamarind Seed Extract protects the skin from environmental stressors and irritants.

ANTIOXIDANT ACTIVITY:

With the goodness of antimicrobial, anti-inflammatory and anti-oxidizing traits, Tamarind is the absolute remedy for brightening skin complexion, scourging facial pores, exfoliating dead skin cells and reverting the signs of ageing.



USE OF GREEN POLYMERS IN COSMETICS FORMULATION & PERSONAL CARE PRODUCTS

1

The use of polysaccharides in cosmetic formulations is growing, together with the increasing attention of manufacturing companies toward green raw materials and product sustainability.

2

In personal care products, these multipurpose polymers are used as thickener and stabilizing agents (i.e., xanthan gum, cellulose) or as moisturizing ingredients that can also improve the skin feel of the product (i.e., hyaluronic acid, guar derivatives)

3

Tamarind seed polysaccharides have a repairing effect on damaged skin and maybe a potential active ingredient in restorative cosmetics. Compared with traditional cosmetics, the biggest advantage of polysaccharides is that they have strong activity and low toxicity.

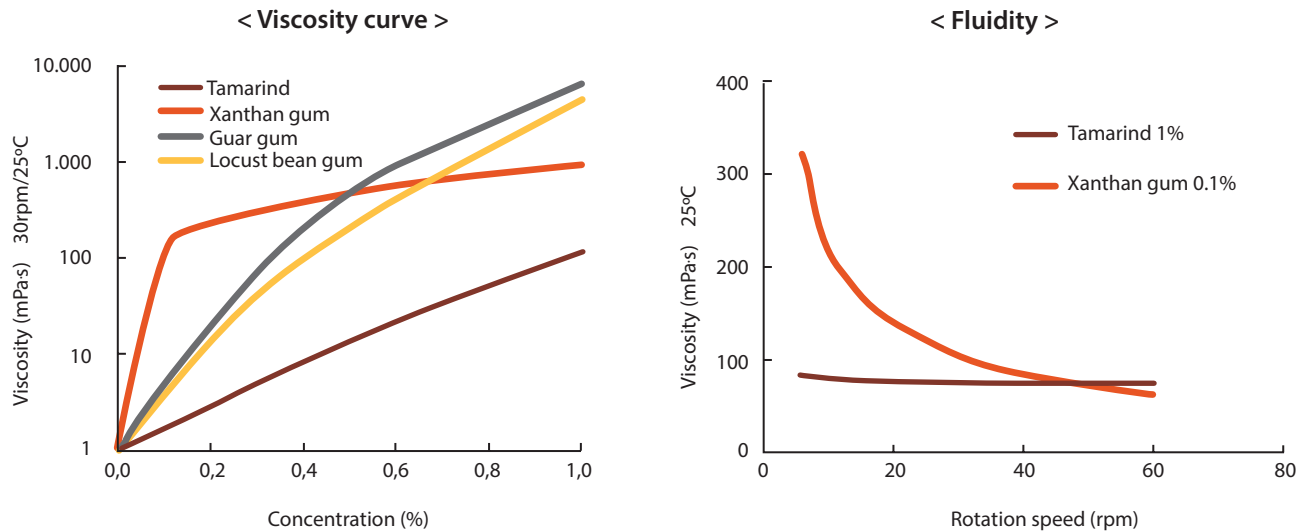
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The similarities between xyloglucan and hyaluronic acid, from both a physical and a biological perspective, suggest this polysaccharide as a "green" alternative to hyaluronic acid.

VISCOSITY AND FLUIDITY – TAMARIND SEED EXTRACT POWDER

TAMARIND shows moderate viscosity compared to other common natural polymers such as xanthan gum, guar gum, locust bean gum.

Fluidity of TAMARIND solution is unique. It shows Newtonian fluid that viscosity is unchanged as rotation speed increases.



References

1. Gruber, J.V. Polysaccharide-Based Polymers in Cosmetics. In Principles of Polymer Science and Technology in Cosmetic and Personal Care; Goddard, E.D., Gruber, J.V., Eds.; Marcel Dekker Inc.: New York, NY, USA, 1999
2. Luzia DM, Jorge N. Antioxidant activity, fatty acid profile and tocopherols of Tamarindus indica L. seeds. Food Sci Technol. 2011
3. Siddhuraju P. Antioxidant activity of polyphenolic compounds extracted from defatted raw and dry heated Tamarindus indica seed coat. Sci Technol. 2007
4. Sudjaroen Y, Haubner R, Würtele G, et al. Isolation and structure elucidation of phenolic antioxidants from Tamarind (Tamarindus indica L.) seeds and pericarp. Food Chem Toxicol. 2005

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"This statement has not been evaluated by the food and drug administration. This product is not intended to diagnose, treat, cure, or prevent any disease."