

Pullulan



raw material approved by
ECOCERT GREENLIFE, conform
to the COSMOS Standard



unique
polysaccharide
from
Hayashibara

Pullulan

for film formation and texture creation

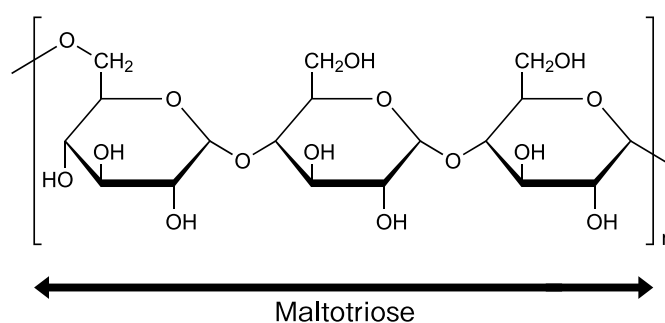


Pullulan

unique polysaccharide from

Pullulan is a polysaccharide produced by fermentation. It is available as a white to yellowish-white odorless powder which can provide smoother texture to cosmetic products.

☒ Structure of Pullulan



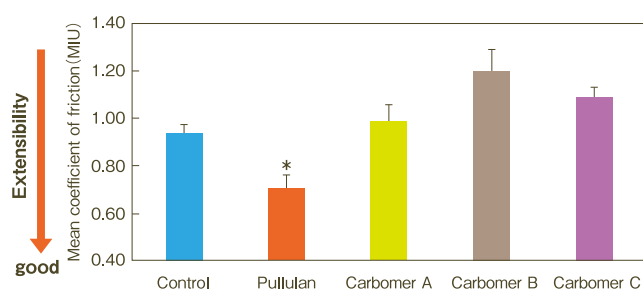
Pullulan is freely soluble in water, which makes it easy to use in shampoos, hair conditioners, shower gels, body washes and other “wash-away” products.

Pullulan is a polysaccharide with a lower viscosity in an aqueous solution than most other thickening agents. Pullulan, as an aqueous solution, has unique properties such as lubricity and adhesiveness that can improve the efficiency of the production process and provide unique functionalities for new product development.

Property 1

Lubricity

Pullulan has lubricity and excellent foam retention properties. Importantly, Pullulan solution is not highly viscous – and this enables it to be used for creating luxuriantly smooth textures for skin care, hair care and facial cleansing products.



* : $p < 0.01$ vs. Control, Carbomer A, B and C (Scheffe's post hoc test)



Property

2

Adhesiveness

The excellent adhesive properties of Pullulan, together with its low viscosity, enable active ingredients to be effectively applied to the body by hand, spray or roll-on.

Property

3

Binding property

The excellent adhesive properties of Pullulan also makes it suitable as a binder for agglomerated products and hair gel.

Property

4

For facial masks, cosmetic films and hair styling products

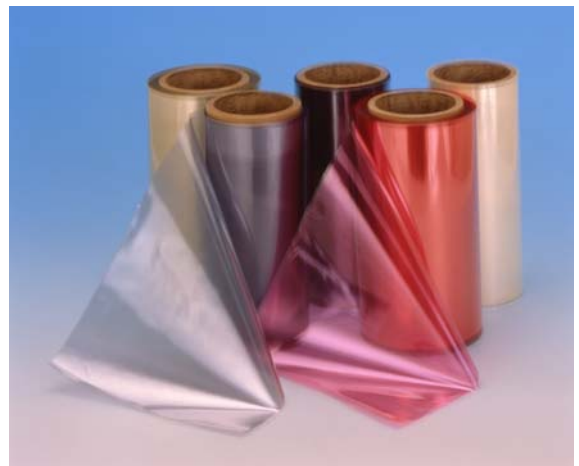
Film forming characteristics

Pullulan is an excellent film former, producing strong films that may be modified by the inclusion of other gums and gelling agents.

Pullulan film is anti-static, impermeable to oxygen and oil resistant.

Importantly, active ingredients may be incorporated into the film and effectively stabilized.

Pullulan film can provide a novel format for innovative cosmetic products - such as facial masks, soap strips, and hair styling strips, while the high water solubility of Pullulan allows for the final products to be easily washed away.



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INCI name: Pullulan

Pullulan is manufactured by
Hayashibara Co., Ltd. in Japan.

