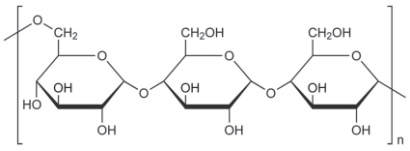
PULLULAN

JP, USP-NF, Ph.Eur.

General

Pullulan is a neutral polysaccharide which consists of maltotriose units linked through α-1,6 glucosidic bonds.

While Pullulan is ubiquitous in nature, it is commercially produced with starch syrup as a substrate by fermentation and is available as a white non-crystalline powder with high water solubility.



Chemical formula: $(C_{18}H_{30}O_{15})_n$

CAS RN®: 9057-02-7

Properties

- Relatively low viscosity that translates into good workability
- High water solubility
- Excellent adhesiveness that allows pullulan to be used as a unique and effective binder
- Ability to improve lubrication and texture
- Excellent film-forming ability that makes an ideal material for edible film coatings

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Applications

■ Binder for tablets or granulation

- It's low viscosity and high adhesive strength enables pullulan to be used as a binder for tablets or granulation.

■ Coating for tablets

- The excellent binding and film-forming properties of pullulan make it a valuable coating material for tablets. Pullulan allows production of smoother, glossier and stronger tablets.
- A unique benefit of using pullulan for film coating is its exceptional oxygen barrier properties that can maintain the stability of APIs against oxidation and noticeably reduce strong or unpleasant odors from tablets or coated particles.

■ Film

- Due to its excellent oxygen barrier properties and high water solubility, pullulan film has a broad range of applications such as breath-freshening strips. Colors, flavors and functional ingredients can be incorporated in the film matrix and be effectively stabilized.

Packaging

10 kg　(PE bag in carton box)

MANUFACTURER : Nagase Viita Co., Ltd.
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Life & Healthcare Products Department
E-mail: dnfct@ex.nagase.co.jp

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