Creative Enzymes®

Pullulan

Cat. No. CEFX-281

Lot. No. (See product label)

Introduction

Description

Pullulan is an extracellular water-soluble mucopolysaccharide similar to glucan and xanthan gum produced by the fermentation of germinating short-stemmed molds. It is a special microbial polysaccharide discovered by R. Bauer in 1938. Pullulan polysaccharide is strong in film-forming, gas barrier, plasticity and viscosity, and it is soluble in water, non-toxic, harmless, colorless and odorless, etc. It has been widely used in the fields of pharmaceuticals, foodstuffs, light industry, chemical industry and petroleum. Pullulan polysaccharide has been used as a food additive in Japan for more than 20 years, and has been listed in GRAS in the U.S. Pullulan has been included in the U.S. Pharmacopoeia and the Japanese Pharmacopoeia.

Applications

Food Industry Pullulan in the food industry is a stabilized white powdered water-soluble neutral polysaccharide with good resistance to salt, heat and pH changes for thickening. It is used as a binder, adhesive and thickener to modify or maintain the structure of food. It has superior film-forming properties, can be printed, is thermally stable and has excellent oxygen barrier properties.Pullulan can be used to preserve eggs, fruits, vegetables, dried fruits, seafood and meats, and as a low-calorie food additive. Cosmetic Industry Pullulan aqueous solutions have good foam retention and bonding properties with low viscosity and are suitable for use in high grade emollients, hair conditioners and facial cleansers. Its superior bonding properties make it widely used in facial masks and its good solubility properties make it an ideal carrier for actives and perfumes. Pharmaceutical Industry Pullulan's bonding properties are superior to those of other binders in the tabletting process, and its low viscosity and high adhesion make it highly efficient to use in the granulation process.Pullulan's film-forming and bonding properties make it an important component of tablet coatings, providing a smooth surface and improving tablet strength. As an all-natural, organic product, Pullulan capsules have the appearance of gelatin capsules while meeting the needs of vegans and religious people. Extremely low oxygen permeability makes it suitable for encapsulating easily oxidizable contents, extending storage time and stability. Tobacco industry Pullulan is a promising tobacco binder and humectant in the tobacco industry as it adds aroma, maintains moistness and improves grade.

Product Information

Appearance White to Off-white powder

Form powder

CAS No. 9057-02-7

Usage and Packaging

Package 1kg/bag

Storage and Shipping Information

Storage The product may be stored for at least 24 months from the date of manufacture in its sealed container under normal temperatures in a dry and enclosed environment. Keep container tightly closed.