



# PHYTOGLYCOGEN

**Q.P. CORPORATION**

Q.P. PHYTOGLYCOGEN is a nutritional food material extracted and refined from sweet corns by our original manufacturing methods.

This is a white to pale yellow powder with having faint characteristic odor.

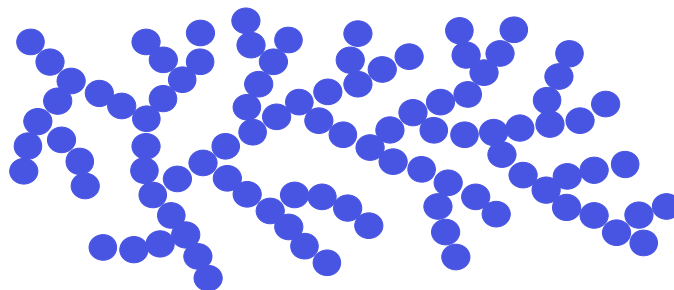
Unlike other polysaccharides, phytoglycogen possesses a highly branched structure.

## WHAT IS PHYTOGLYCOGEN ?

Glycogen is a highly branched polysaccharide that exists in animal tissues and plants.

Glycogen in animal tissues has a molecular weight of  $10^6$  to  $10^7$  and is used as an energy source for animals.

As distinguished from glycogen in animal tissues, glycogen in corns is called Phytoglycogen.



The structure of Glycogen: Glycogen is classified as polysaccharides and has highly branched structures as above.

Many  $-1,6$  bonding divergences are bound to long straight chains consisted of  $-1,4$  bonding.

## CHARACTERISTICS

Phytoglycogen could be easily dissolved in water even in high concentration and form an aqueous solution.

The solution has low viscosity and a bit bluish color.

## SAFETY

There was no negative result for the test of primary skin irritation, skin irritation after irradiation, human patch, and eye irritation.

## SPECIFICATIONS AND RESULTS ( representative sample )

|                      | SPECIFICATIONS | RESULTS    |
|----------------------|----------------|------------|
| GLYCOGEN             | NLT 75.0 %     | 92.1 %     |
| MOISTURE             | NMT 15.0 %     | 2.3 %      |
| ASH                  | NMT 0.5 %      | 0.1 %      |
| PROTEIN              | NMT 0.5 %      | 0.1 %      |
| HEAVY METALS         | NMT 20 ppm     | NMT 20 ppm |
| ARSENIC              | NMT 2 ppm      | NMT 2 ppm  |
| AEROBIC PLATE COUNTS | NMT 1,000 / g  | 60 / g     |
| MOLD AND YEAST       | NMT 100 / g    | NMT 10 / g |

## STORAGE AND EXPIRATION PERIOD

Storage : Store at ordinary temperature and keep it away from high temperature and direct sunlight.

Expiration period : 2 years from manufacturing date.  
(unopened, at ordinary temperature )

## PACKING

1 kg × 1



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