



# NECROGEL® PGS

NECROGEL® PGS is a natural pregelatinized maize starch that has been specially developed as a binder for wet granulation. This excipient is dispersible and partially soluble in cold water and ready for use. The properties of NECROGEL® PGS result from a combination of the natural binding properties of Pregel starches and a controlled manufacturing process. The latter ensure this natural origin excipient of high stability reproducible binding properties during granulation and dissolution profile of actives in the final forms.

NECROGEL® PGS can be used in granules and swallowable forms in both pharmaceutical and nutraceutical applications.

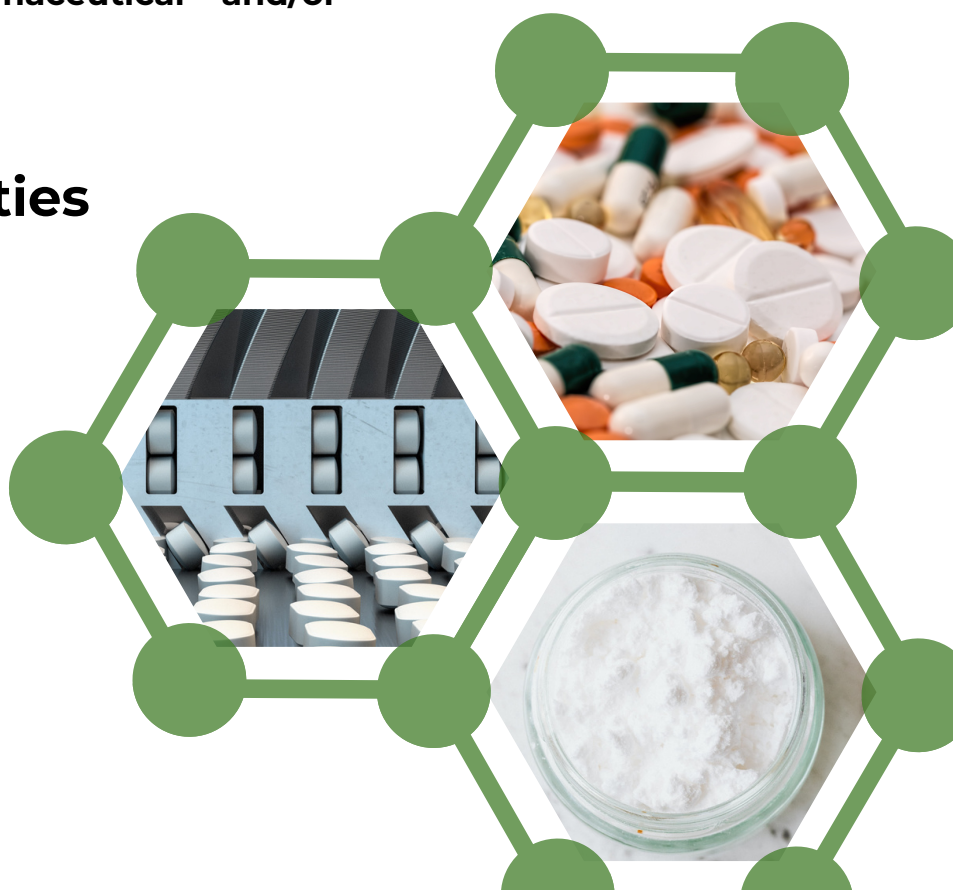
**Key attributes: Binder for high shear granulation  
Fully pregelatinized starch**

## Applications

- Oral Dosage for Pharmaceutical and/or Nutraceuticals
- Swallowable tablet

## Functional Properties

- Excipient
- Binder



# NECROGEL® PGS

Pregelatinized Starch is prepared from Maize starch. CAS n 9005-25-8

| DETERMINATION                             | SPECIFICATION   | TEST METHOD        |
|---|---|--------------------|
| Description                               | White amorphous powder free from Lumps                                      | IP, EU/BP, and USP |
| Identification                            | A Water Slurry of it is colored orange-red to deep blue by adding iodine TS | IP, EU/BP, and USP |
| pH  | Limit 4.5-7.0   | IP, EU/BP, and USP |
| LOSS ON DRYING<br>(at 130 °C for 90 Mins) | Not more than 10%   | IP, EU/BP, and USP |
| Solubility                                | It Swells in Cold Water   | IP, EU/BP, and USP |
| SULFATED ASH(**)                          | NMT 0.5%  | IP, EU/BP, and USP |
| RESIDUE ON IGNITION(**)                   | NMT 1.5%  | IP, EU/BP, and USP |
| FOREIGN MATTER(*)                         | Absent  | IP, EU/BP, and USP |
| OXIDISING SUBSTANCE                       | NMT 20 PPM  | IP, EU/BP, and USP |
| Sieve Test                                | 100 Mesh  | IP, EU/BP, and USP |
| IRON(**)                                  | 20 ppm max.   | IP, EU/BP, and USP |
| Limit of Sulphur Dioxide                  | NMT 0.005%  | IP, EU/BP, and USP |
| <b>MICROBIAL LIMIT TEST:</b>              |   |                    |
| TOTAL AEROBIC MICROBIAL<br>COUNT          | 1000 CFU/g max.   | IP, EU/BP, and USP |
| TOTAL YEASTS AND MOULDS<br>COUNT          | 100 CFU/g max.  | IP, EU/BP, and USP |
| ESCHERICHIA COLI(**)                      | Absence in 10g.   | IP, EU/BP, and USP |
| SALMONELLA(**)                            | Absence in 10g.   | IP, EU/BP, and USP |