

PlantPro 580MDP

PP580MDP

Features/Benefits

- Highly-performance bromelain enzyme for achieving extensive hydrolysis of plant-derived proteins
- Improve the versatility of plant proteins to use in different food ingredient applications
- Meets clean label demands - plant-derived enzyme suitable for vegan labelled food ingredients

PlantPro™ 580MDP is a high-performance bromelain enzyme tailored for the effective hydrolysis of plant proteins, enhancing the functionality of plant-based food ingredients. Derived from pineapple, PlantPro™ 580MDP effectively breaks down plant proteins into smaller peptides, improving their solubility, digestibility and functionality. This enzyme can be applied to a range of plant proteins including, but not limiting to wheat gluten, pea protein, corn gluten and some lesser used substrates like seaweed and algal protein sources.

Specification

Activity	1200 Bromelain GDU/g
Biological Source	<i>Ananas comosus</i>
Appearance	Off-white to brown powder
Application pH Range	4.0 - 7.5
Application Temperature Range	45 - 55°C
Deactivation Conditions	80°C for 20 minutes

Application & Dose

The optimum dosage of PlantPro™ 580MDP will depend on the protein substrate and level of modification required. A temperature of 45 – 55°C and pH of 4.0 – 7.5 are recommended for optimal hydrolysis. As an initial dosing guide, PlantPro™ 580MDP can be used at a dose of 1.1 – 2.0% w/w protein content for high degree of hydrolysis or 0.5 - 1% w/w protein content for a moderate degree of hydrolysis. A typical incubation time may be in the range of 4 – 24 hours. It is recommended that optimisation trials are then performed in order to determine the exact conditions to achieve the desired effect. Please contact Biocatalysts Ltd for further technical support. We offer a comprehensive technical application service partnering with you to test our enzymes with your substrates to help you achieve optimal performance, efficiency, and quality in your products.

Health & Safety

Always read the Material Safety Datasheet (MSDS) before use and retain. If you are in any doubt about recommended product handling and safety, please contact Biocatalysts before use. Generally, when using enzymes avoid contact with the skin and eyes and do not breathe dusts or aerosols containing them. MSDSs are available in other languages. Please contact Customer Services.

Storage

Powders: Activity will remain within specification for at least 12 months from the date of manufacture when stored at 0 - 20°C.

Allergens

Refer to allergen statement.

Food Status

Material complies with the JECFA/FAO/WHO and FCC recommended specifications for enzymes used in food processing.

GM Status

This product has not been manufactured from a genetically modified microorganism, and no materials from genetically modified organisms have been used during the manufacturing process. This product does therefore not require labelling as GMO on food labels.

Quality & Food Safety

Biocatalysts operates a preventative risk-based Food Safety System that ensures the environment and processes are designed to produce safe products every time. FSSC22000 and FSMA compliant.

Compliance - The Company's integrated management system encompasses Quality, Food Safety, Health and Safety and GMP.

Certificates are available on request from the Customer Services Department.

Availability

Powders: standard 25kg net poly-lined, 100% recyclable cardboard box. Non-standard quantities are also available for some products, please enquire.