

# Promod<sup>®</sup> 971MDP

## P971MDP

### Features/Benefits

- Highly efficient microbial protease
- Hydrolysis of animal and fish proteins
- Reduces viscosity of animal proteins
- Savoury flavour generation

**Promod<sup>®</sup> 971MDP** is a microbial protease preparation with broad substrate specificity. This enzyme can be used to efficiently hydrolyse animal and fish proteins to increase solubility, reduce viscosity, and produce specific flavours. The hydrolysis and degradation of animal protein contributes to the development of a savoury meat flavour for use in pet food palatants. Hydrolysis using P971MDP also improves the digestibility of the protein in many pet food and feed nutritional products.

### Specification

Activity	164 Casein Protease U/g
Biological Source	<i>Microbial</i>
Form	Off-white to brown powder
Optimum pH Range	6.0 - 7.0
Optimum Temperature Range	50 - 60°C

### Application & Dose

**Promod<sup>®</sup> 971MDP** displays optimal activity at neutral pH (6.0-7.0) and at a temperature of 55°C. As a guideline, the enzyme should be dosed between 0.5-1.0% w/w based on the weight of the protein for a high degree of hydrolysis. Promod<sup>®</sup> 971MDP will perform efficiently when the substrate is prepared in water and no pH adjustment is required during the enzyme hydrolysis step if the pH is in the range of pH 6.0-7.0. The enzyme incubation time will depend on the enzyme dose, temperature, pH and hydrolysate requirements. Trials will be required in order to determine the optimal enzyme hydrolysis conditions. The enzyme is deactivated at 85°C for 15 minutes after the enzyme hydrolysis step.

### 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.

### GM Status

This product does not contain GMMs or genetically modified material.

### 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.