

# Promod<sup>®</sup> D24MDP

## PD24MDP

### Features/Benefits

- High performance protease
- Active at gastric and neutral pH
- Digests broad range of proteins
- Suitable for vegetarians

Promod<sup>®</sup> D24MDP is a bacterial proteinase with maximal activity in the mildly acid pH range and is ideal for use in dietetic formulations. It can be used as a substitute for pancreatin and pancreatic trypsin in vegetarian products. In particular it has a good synergistic action with plant proteases such as papain and bromelain.

### Specification

Activity	140 U/g Casein Protease
Biological Source	<i>Bacillus sp.</i>
Form	Off-white to brown powder
Optimum pH Range	5.0 - 7.5
Optimum Temperature Range	50 - 60°C

### Application & Dose

Promod<sup>®</sup> D24MDP should be used at a dose rate of about 50 mg - 150 mg per tablet/capsule. The lower dose should be used when papain is also present.

When Promod<sup>®</sup> D24MDP is used as a vegetarian substitute for pancreatin it should be considered to have a protein digesting power similar to 3 - 4 NF pancreatin. NB because Promod<sup>®</sup> D24MDP has a lower pH optimum than pancreatin proteinase it will only give an activity value similar to 1 - 2 NF pancreatin in laboratory tests.

### 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 been manufactured using a fermentation process of a microbial organism that has not been altered using modern biotechnology. 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.