DESCRIPTION
Neutral Protease is a food grade enzyme derived *Bacillus subtilis*. Neutral Protease is mainly an endo-protease. It tends to cleave peptide bonds at random within the protein structure.

PHYSICAL CHARACTERISTICS
Neutral Protease is supplied a white to tan powder that is readily soluble in water.

Neutral Protease is active in a pH range of 5.5-9.0, with an optimum at pH 7.0.

Neutral Protease is active in a temperature range of 30°C to 70°C, with an optimum at 55°C.

Neutral Protease is stabilized with calcium salts and sodium chloride. Calcium withdrawing compounds such as ethylenediaminetetraacetic acid (EDTA), phosphate and polyphosphate reduce stability and should be avoided when formulating with Neutral Protease.

ACTIVITY RANGE
Neutral Protease can be custom blended to strengths from 5,000 PC/g to 2 Million PC/g.

USAGE RECOMMENDATIONS
Neutral Protease is used in a variety of markets ranging from animal feed to ingredient development. The use level will vary depending on the application and the conditions of use, such as substrate concentration, desired degree of hydrolysis, pH, temperature, reaction time, and the presence of other materials that could influence its activity.

PACKAGING
Please ask us about our available packaging options.

SHELF LIFE AND STORAGE
Neutral Protease is stable for 18 months when stored in a cool, dry place.

SAFETY AND HANDLING
Inhalation and direct contact with enzyme preparations may cause allergic reaction or irritation. To minimize the risk around enzyme preparations, it is important to prevent inhalation and direct contact with any part of the body. Please refer to the Safety Data Sheet and the Enzyme Technical Association publication – Working Safely with Enzymes.

TECHNICAL SERVICE
Information covering specific applications of this product is available. BIO-CAT will work with you to enhance processes and solve problems. Let us know what you need and we will assist you.

MARKET APPLICATIONS
Animal Feed  
Baking  
Dietary Supplements  
Food and Beverage  
Ingredient Development

CAS # 9001-92-7  
IUB # 3.4.24.28

Nothing disclosed is to be construed as a recommendation to use our product in violation of patents or in an unsafe manner. The information presented is believed to be accurate. However, said information and products are offered without warranty or guarantee except as to the composition and purity stated herein since the ultimate conditions of use and the variability of the materials treated are beyond our control.