

TECHNICAL INFORMATION

DESCRIPTION:

This exclusive food grade fungal enzyme system is obtained by the controlled fermentation of *Aspergillus oryzae* and *Aspergillus melleus* and is formulated to provide the optimum hydrolysis of whey, soy and rice proteins, without the formation of bitter by-products. This enzyme system exhibits both exo-peptidase and endo-peptidase activities. The exo-peptidase activities hydrolyze the protein molecule at the terminus of the peptide chain liberating an amino acid, while the endo-peptidase activities hydrolyze the protein molecule at the interior peptide bonds liberating peptides of various lengths.

ACTIVITY:

The activity of BioCore[®] Edge is measured in the FCC HUT; the assay of which is based on the hydrolysis of denatured hemoglobin. One HUT (Hemoglobin Unit on a Tyrosine Basis) unit of proteolytic (protease) activity is defined as that amount of enzyme that produces, in one minute under the specified conditions, a hydrolysate whose absorbance at 275nm is the same as that of a solution containing 1.10µg per ml of tyrosine in 0.006N hydrochloric acid.

PROPERTIES:

Form:	Dry powder
Color:	Light tan
Odor:	Free of offensive odor
Taste:	Free of offensive taste
Effective pH Range:	pH 3.0 to 11.0
Optimum pH:	pH 6.0 to 8.0
Effective Temperature Range:	Up to 60°C
Optimum Temperature:	40°C to 50° C

TYPICAL SIDE ACTIVITIES:

A variety of proteolytic activities

APPLICATIONS:

This exclusive enzyme system is specially formulated to encourage the optimum bioaccessibility of the typical proteins utilized in sport nutrition products, without altering the palatability of these products. This enzymes system is suitable for addition to sports nutrition products that utilize any combination of soy, whey, and/or rice proteins.

SHELF LIFE:

To maintain optimum enzyme activity, this product should be stored in a cool, dry place in a tightly sealed container. When properly stored, this product can be expected to lose less than 10% of its activity in twelve months.

Note: Nothing disclosed above is to be construed as a recommendation to use our product in violation of any patents. The information presented above 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 variability of the materials treated are beyond our control.