



PROTEASE (Subtilisin A) from *Bacillus licheniformis* (Lot 10401)

10/03

PROPERTIES

1. PURITY

- Highly purified by ion exchange chromatography.
- Single major band on Isoelectric focusing (pI ~ 8.8).
- 300 U/ml (40°C, pH 8.0, casein as substrate).

2. SPECIFIC ACTIVITY AND LEVEL OF OTHER ACTIVITIES

- Specific activity = 6 tyrosine-equivalent Units/mg.
- devoid of β -glucanase.

One Unit will hydrolyse casein to produce colour equivalent to 1.0 μ mole (181 μ g) of tyrosine per minute at pH 7.0 at 40°C (colour by Folin-Ciocalteu reagent).

3. PHYSICOCHEMICAL PROPERTIES

pH Optima	7.0-7.5 (60% of maximal activity at pH 6.0)
pH Stability	5.5-10.0
Temperature Optima	60°C
Temperature Stability	< 60°C

4. STORAGE CONDITIONS

The enzyme is supplied in vials of 40 ml, as a solution in 50% glycerol plus sodium benzoate (0.2%), and should be stored at 4°C (or at -20°C for long-term storage i.e 2-5 years).

The concentration of enzyme as supplied is 50 mg/ml (i.e. 300 U/ml) at 40°C.
This enzyme is recommended for use in AOAC INTERNATIONAL Total Dietary Fibre analytical procedures.