



## PROTEASE (Subtilisin A) from *Bacillus licheniformis* (Lot 130602a)

**E-BSPRT-40ML**  
(EC 3.4.21.14)

03/15

### PROPERTIES

#### 1. PURITY:

- Single major band on SDS-PAGE (MW = 30,250); minor bands at MW < 30,000
- Single major band on isoelectric focusing (pI 8.8); minor band at pI 9.3

#### 2. SPECIFIC ACTIVITY AND LEVEL OF OTHER ACTIVITIES:

- Specific activity > 8 tyrosine-equivalent Units/mg
- Essentially devoid of  $\beta$ -glucanase

One Unit will hydrolyse casein to produce colour equivalent to 1.0  $\mu$ mole (181  $\mu$ 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, 10% KCl and 0.2% (w/v) sodium benzoate, 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. 400 U/mL) at 40°C.  
This enzyme is recommended for use in AOAC INTERNATIONAL Total Dietary Fibre analytical procedures.