



## PROTEASE (Subtilisin A) from *Bacillus licheniformis* (Lot 130501a)

**E-BSPRPD**  
(EC 3.4.21.14)

07/14

### 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:**

- Activity: approx. 9 tyrosine-equivalent Units/mg solid
- Specific activity: approx. 9 tyrosine-equivalent Units/mg solid
- 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 powder form. Stable for > 4 years -20°C.  
This enzyme is suitable for use in AOAC INTERNATIONAL Total Dietary Fibre analytical procedures.

Once dissolved, store frozen between use.