PROTEASE (Subtilisin A) from Bacillus licheniformis (Lot 190101a)

E-BSPRT-40ML (EC 3.4.21.14) 02/19

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 β-glucanase

   **One Unit** will hydrolyse casein to produce colour equivalent to 1.0 μmole (181 μg) 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 as a solution in 50% glycerol, 10% KCl and 0.02% sodium azide, and should be stored at 4°C (or below -10°C for long-term storage i.e 2-5 years).

   The concentration of enzyme as supplied is 50 mg/mL (i.e. 350 U/mL) at 40°C.
   This enzyme is recommended for use in AOAC INTERNATIONAL Total Dietary Fibre analytical procedures.