PROPERTIES

1. **PURITY:**
   - Partially purified; completely soluble in 10 mM salt solution

2. **ACTIVITY:**
   - 100,000 U/g solid
   - MW 51-54 Kd

   **One Unit** of α-amylase is the amount of enzyme required to release one μmole of p-nitrophenol from blocked p-nitrophenyl-maltoheptaoside per minute (in the presence of excess α-glucosidase) at pH 6.9 and 40°C.

3. **PHYSICOCHEMICAL PROPERTIES:**
   - pH Optima: 6.9
   - pH Stability: 4.5-8.0
   - Temperature Optima: 53°C
   - Temperature Stability: < 40°C

4. **STORAGE CONDITIONS:**
   The enzyme is supplied in powder form, which should be stored dry below -10°C. Allow bottle to warm to room temperature before opening.

This enzyme is recommended for use in the Megazyme Integrated procedure for the measurement of Total Dietary Fibre and the Megazyme Resistant Starch kit and Non-digestible Oligosaccharides (in preparation).