β-*N*-ACETYLHEXOSAMINIDASE (Prokaryote) (Lot 150101b)

Recombinant

E-BNAHP **03/19**

(EC 3.2.1.52) β-*N*-acetyl-D-hexosaminide; *N*-acetylhexosaminohydrolase
CAZy Family: GH20
CAS: 9012-33-3

PROPERTIES

1. ELECTROPHORETIC PURITY:

- Single band on SDS-gel electrophoresis (MW ~ 52,000)
- One major band on isoelectric focusing (pI ~ 6.3)

2. SPECIFIC ACTIVITY:

260 U/mg protein (on *p*NP-β-D-N-acetylglucosamine) at pH 4.0 and 40°C;
~ 723 U/mg protein (on *p*NP-β-D-*N*-acetylglucosamine) at pH 4.0 and 60°C.

One Unit of β-*N*-acetyl-D-hexosaminidase activity is defined as the amount of enzyme required to release one µmole of *p*-nitrophenol per minute from *p*NP-β-D-*N*-acetylglucosamine (1 mM) in citrate-phosphate buffer (100 mM) pH 4.0 at the temperatures indicated, monitored at 400 nm.

3. SPECIFICITY:

Hydrolysis of terminal non-reducing *N*-acetyl-D-hexosamine residues in *N*-acetyl-β-D-hexosaminides from glycoproteins and oligosaccharides.

4. PHYSICOCHEMICAL PROPERTIES:

Recommended conditions of use are at pH 3.0-5.0 and up to 60°C

pH Optima:	4.0
pH Stability:	3.0-9.0 (> 75% control activity after 24 hours at 4°C)
Temperature Optima:	60°C (10 min. reaction)
Temperature Stability:	up to 50°C

5. STORAGE CONDITIONS:

The enzyme is supplied as an ammonium sulphate suspension in 0.02% (w/v) sodium azide and should be stored at 4°C. For assay, this enzyme should be diluted in citrate-phosphate buffer (100 mM), pH 4.0 containing 1 mg/mL BSA. **Swirl to mix the enzyme immediately prior to use.**

6. EXPERIMENTAL DATA: