



## $\alpha$ -N-ACETYL GALACTOSAMINIDASE (microbial) (Lot 150601c)

### Recombinant

### E-ANAGM

11/19

(EC 3.2.1.49)  $\alpha$ -N-acetyl-D-galactosaminide N-acetylgalactosaminohydrolase  
CAZy Family: GH36

### PROPERTIES

#### 1. ELECTROPHORETIC PURITY:

- Single band on SDS-gel electrophoresis (MW ~ 88,900)
- Single major band on isoelectric focusing (pI ~ 5.3)

#### 2. SPECIFIC ACTIVITY:

**15.0 U/mg protein (on pNP- $\alpha$ -D-N-acetylgalactosamine) at pH 7.5 and 37°C.**

\***One Unit** of  $\alpha$ -N-acetyl-D-galactosaminidase activity is defined as the amount of enzyme required to release one  $\mu$ mole of p-nitrophenol per minute from pNP- $\alpha$ -D-N-acetylgalactosamine (1 mM) in Tris.HCl buffer (10 mM) pH 7.5 and 37°C, monitored at 410 nm.

\* Extinction coefficient ( $\epsilon$ ) of p-nitrophenol =  $11418 M^{-1} \times cm^{-1}$

#### 3. SPECIFICITY:

Hydrolysis of terminal non-reducing N-acetyl-D-galactosamine residues in N-acetyl- $\alpha$ -D-galactosaminides from glycoproteins and oligosaccharides.

#### 4. ASSAY CONDITIONS:

pH Optima:	6.0-8.0
pH Stability:	4.5-8.0
Temperature Optima:	37°C
Temperature Stability:	up to 45°C

#### 5. STORAGE CONDITIONS:

The enzyme is supplied as a buffered solution containing 20 mM Tris, 50 mM NaCl, 5mM EDTA pH 7.5 in 0.02% (w/v) sodium azide and should be stored at 4°C. For assay, this enzyme should be diluted in Tris.HCl buffer (10 mM), pH 7.0 containing 1 mg/mL BSA. **Swirl to mix the enzyme immediately prior to use.**