

α -GALACTOSIDASE (*Aspergillus niger*) POWDER

08/23

Non-recombinant

E-AGLANP

EC: 3.2.1.22

Synonyms: alpha-galactosidase; alpha-D-galactoside galactohydrolase

CAZy Family: GH36

CAS: 9025-35-8

Refer to the product lot number Certificate of Analysis for lot specific properties.

PROPERTIES

1. ELECTROPHORETIC PURITY:

- Single major band on SDS-gel electrophoresis (MW = 97,000)
- Single major band on isoelectric focusing (pI = 4.2)

2. SPECIFICITY:

Hydrolysis of α -1,2- and α -1,3-linked L-arabinofuranose residues from arabinoxylans and branched arabinans. Hydrolyses α -1,5-linked arabino-oligosaccharides at a much lower rate.

3. PHYSICOCHEMICAL PROPERTIES:

pH Optima:	4.5-5.0
pH Stability:	4.0-8.0
Temperature Optima:	60°C (at pH 5.0)
Temperature Stability:	Unstable above 60°C

4. STORAGE CONDITIONS:

The enzyme is supplied as a freeze-dried powder and should be stored dry at -20°C. On dissolution in buffer, the enzyme should be stored in the frozen state in a polypropylene container between use. For use in **K-FRUC** kit, dissolve the contents of the bottle in 15 mL of 50 mM sodium acetate buffer (pH 4.5) and store in 5 mL aliquots in polypropylene tubes at -20°C between use.