α-L-ARABINOFURANOSIDASE from *A. niger* (Lot 70303)

E-AFASE 08/2010

PROPERTIES

1. ELECTROPHORETIC PURITY

- Single major band on SDS-gel electrophoresis (MW = 62,000)
- Single major band on Isoelectric focusing (pI < 3.0)

2. SPECIFIC ACTIVITY

SUBSTRATE	SPECIFIC ACTIVITY (U/mg protein)
p-Nitrophenyl-α-arabinofuranoside (5mM, pH 4, 40°C)	19.0
1,5-α-L-Arabinotriitol (5 mM, pH 4, 40°C)	3.5
Sugar-beet arabinan (5 mg/ml, pH 4, 40°C)	6.3
Wheat flour Arabinoxylan (5 mg/ml, pH 4, 40°C)	0.6
Debranched Sugar-beet arabinan (5 mg/ml, pH 4, 40°C)	0.2

Protein was determined by the Folin Lowry procedure with BSA as standard.

3. CONTAMINATION WITH OTHER ACTIVITIES (%)

endo-Arabinanase	< 0.001
β-Xylanase	< 0.01

4. STABILITY

(a) pH Stability: Stable at room temperature for 20hr at pH 4.0 to 8.0

(b) Temperature Stability: Stable for 20 hours at pH 4.0 and temperatures up to 50°C.

The enzyme is supplied in 3.2 M ammonium sulphate containing 0.02% sodium azide and should be stored at 4°C. On dissolution in buffer, it should be stored at -20°C. It is stable to repeated freeze/thaw cycles. On lyophilisation in the absence of salt, it cannot be completely redissolved.