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# Certificate of Analysis

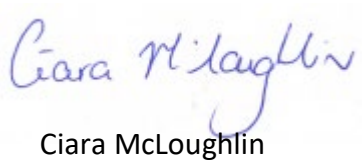
**Product:** α-Fucosidase (*Thermotoga maritima*)
**Cat. No:** E-FUCTM
**Lot. No:** 100402B
**Expiry Date:** December, 2026

**Specific activity and level of other activities (as a percentage of α-fucosidase activity):**

**2.6 U/mg protein at pH 5.0 and 25°C**
~ 4.2 U/mg protein (37°C)
~ 15.0 U/mg protein (60°C)
~ 195 U/mg protein (95°C)
One Unit of α-fucosidase activity is defined as the amount of enzyme required to release one µmole of p-nitrophenol (pNP) per minute from p-nitrophenyl-α-L-fucopyranoside (0.476 mM) in citrate (50 mM)/phosphate (100 mM) buffer, pH 5.0 at the temperatures indicated.

| Substrate | Enzyme Measured (at pH 5.0 and 25°C) | Activity (%) |
|---|---|---|
| *p*NP-α-L-fucopyranoside | α-fucosidase | 100 |
| *p*NP-N-acetyl-β-D-glucosaminide | β-N-Acetylglucosaminidase | < 0.0004 |
| *p*NP-α-D-Galactoside | α-D-Galactosidase | < 0.0001 |
| *p*NP-β-D-Galactoside | β-D-Galactosidase | < 0.0002 |
| *p*NP-β-D-Glucoside | β-D-Glucosidase | < 0.0001 |
| *p*NP-α-D-Mannoside | α-D-Mannosidase | < 0.0001 |
| *p*NP-β-D-Mannoside | β-D-Mannosidase | < 0.0001 |
| *p*NP-β-D-Xyloside | β-D-Xylosidase | ~ 0.0007 |
| Protazyme | Protease | undetectable |

This lot meets our specification.

**Signature:**  **Date:** 12.Aug.2022

Ciara McLoughlin
QC Specialist

(*as this certificate is a computer printout, it has not been signed or dated by hand*)

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