Megazyme Building 1,
Bray Business Park,
Bray, Co. Wicklow,
A98 YV29,
Ireland.
Tel: + 353 1 2861220 Fax: + 353 1 2861264

# Certificate of Analysis

**Product:** α-Galactosidase (*Aspergillus niger*) Powder
**Cat. No:** E-AGLANP
**Lot. No:** 170303A
**Expiry Date:** December, 2027

**Specific activity and level of other activities:**

| Substrate | Enzyme Measured (at pH 4.5 and 40°C) | Specific Activity (U/mg protein) |
|---|---|---|
| *p*NP-α-Galacotside | α-Galacotsidase | 500 |
| *p*NP-β-Galacotside | β-Galacotsidase | < 0.002 |
| *p*NP-α-Glucoside | α-Glucosidase | < 0.002 |
| *p*NP-β-Glucoside | β-Glucosidase | < 0.002 |
| *p*NP-β-Xyloside | β-Xylosidase | < 0.002 |
| *p*NP-β-Mannoside | Arabinofuranosidase | < 0.002 |
| *p*NP-α-L-arabinoside | α-L- Arabinofuranosidase | < 0.002 |
| Carob Galactomannan | *endo*-1,4-β-Mannanase | < 0.002 |
| Sucrose | Invertase | < 0.002 |
| 1-Kestose | *exo*-Inulinase | < 0.01 |
| 1,1-Kestotetaose | *exo*-Inulinase | < 0.01 |
| Fructan (polymer) | *exo*-Inulinase | < 0.01 |

All activities are at pH 4.5 and 40°C. Glycosidase activities were measured using the appropriate *p*-nitrophenyl glycoside (at 10 mM). *endo*-Glycanases were determined with the appropriate substrate (at 10 mg/mL) and using the Nelson/Somogyi reducing-sugar procedure. One Unit of activity is the amount of enzyme required to release one micromole of product (e.g. *p*-nitrophenyl) per min at pH 4.5 and 40°C.

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This lot meets our specification.

**Signature:** 

**Date:** 24.May.2024

Ciara McLoughlin

Quality Manager

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

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