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

Certificate of Analysis

Product: Arabinoxylan (Wheat Flour; Insoluble)
Cat. No: P-WAXYI
Lot. No: 140202
Expiry Date: N/A

Parameter	Specification	Results
Purity	> 90% (dw basis)	90%
Starch	< 0.1%	0.1%
Beta Glucan	< 0.1%	0.1%
Glucose	< 2%	1.5%
Protein	< 5%	2.7%
Moisture	< 5%	2.0%
Ash	< 2%	1.0%

Sugar Composition:

Arabinose	33.5%
Xylose	62%
Glucose	1.5%
Mannose	2.0%
Galactose	1.0%

This lot meets our specification.

Signature: Ida Lazewska **Date:** 16.Aug.2019

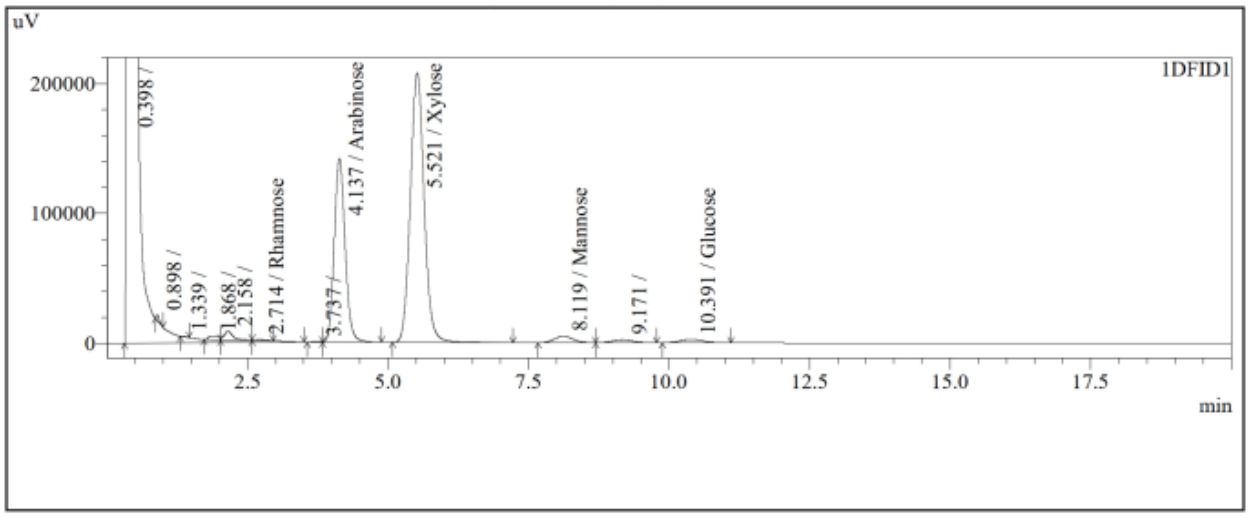
Ida Lazewska
Quality Control Laboratory Manager

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

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GLC of the alditol acetates of insoluble Wheat Arabinoxylan (Lot 140202) hydrolysed with sulphuric acid.



GLC:
A typical polysaccharide sample (~ 10 mg) was hydrolysed using 2N TFA at 120°C for 60 min. Subsequent sodium borohydride reduction was performed in 1N NH4OH for 90 minutes at 40°C. The corresponding alditol acetates were prepared using acetic anhydride and 1-methyl imidazole, extracted into DCM and analysed by GC. Chromatography was performed on a Shimadzu GC-14B with CHROMATOPACK C-R8A using a Packed glass column (6ft x 5 mm OD, 3mm ID) with 3% Silar 10C on W-HP (80-100 mesh). The carrier gas was nitrogen at 130 KPa. Injector temperature; 250°C; Column temperature; 230°C. Detection by FID with 60KPa H2 pressure and 50 KPa air pressure.

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