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

Certificate of Analysis

Product: Arabinan (Sugar Beet)
Cat. No: P-ARAB
Lot. No: 130801A
Expiry Date: N/A

Parameter	Specification	Results
Purity	> 95% (dw basis)	95%
Uronic Acid	5 - 10%	8.3%
Protein	< 5%	3.2%
Moisture	< 10%	5.7%
Ash	< 10%	5.3%

Sugar Composition:

Arabinose	74.1%
Galactose	13.3%
Rhamnose	1.4%
Galacturonic Acid	8.3%
Other sugars	2.9%

This lot meets our specification.

Signature: Ida Lazewska **Date:** 10.Jun.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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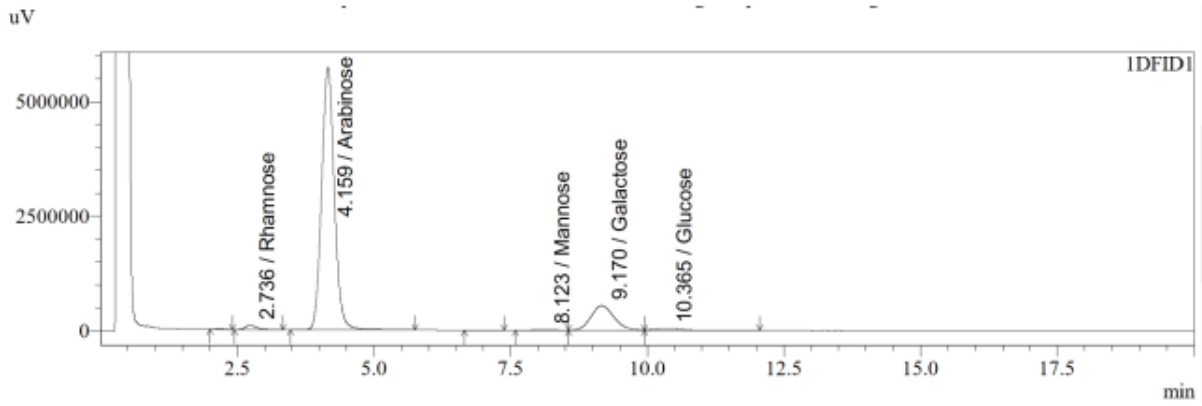
GC:

Gas liquid chromatography of the alditol acetates derived from hydrolysis and derivatization of Arabinan (sugar beet) (Lot 130801A)



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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