

Megazyme Building 1, Bray Business Park, Bray, Co. Wicklow, A98 YV29, Ireland.

Tel: + 353 1 2861220 Fax: + 353 1 2861264

Certificate of Analysis

Product: Rhamnogalacturonan 1 (Potato)

 Cat. No:
 P-RHAM1

 Lot. No:
 150901

 Expiry Date:
 N/A

Parameter	Specification	Results
Purity	> 90% (dw basis)	90%
Uronic Acid	> 60%	61%
Protein	< 10%	5.3%
Moisture	< 2%	1.5%
Ash	< 35%	31.6%

Sugar Composition:

Galacturonic Acid 61%
Rhamnose 6.2%
Arabinose 2.5%
Xylose 0.5%
Galactose 23.1%
Other sugars 6.7%

This lot meets our specification.

Signature: Sda dazeiskia Date: 15.Mar.2019

Ida Lazewska

Quality Control Laboratory Manager

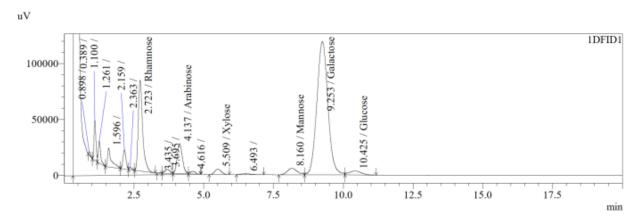
(as this certificate is a computer printout, it has not been signed or dated by hand)



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GC:

Gas liquid chromatography of the alditol acetates derived from hydrolysis and derivatization of Rhamnogalacturonan 1 (Potato) (Lot 150901)



GLC:

A typical polysaccharide sample ($^{\sim}$ 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.