



I,4-β-D-Glucosyl-D-Mannose plus I,4-β-D-Mannobiose (Lot 120602)

O-GMMBI

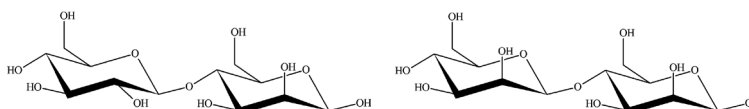
06/12

MW: 342.4

CAS No. -

I,4-β-D-Glc-D-Man
(~ 54%)

+ **I,4-β-D-Man-D-Man**
(~ 45%)

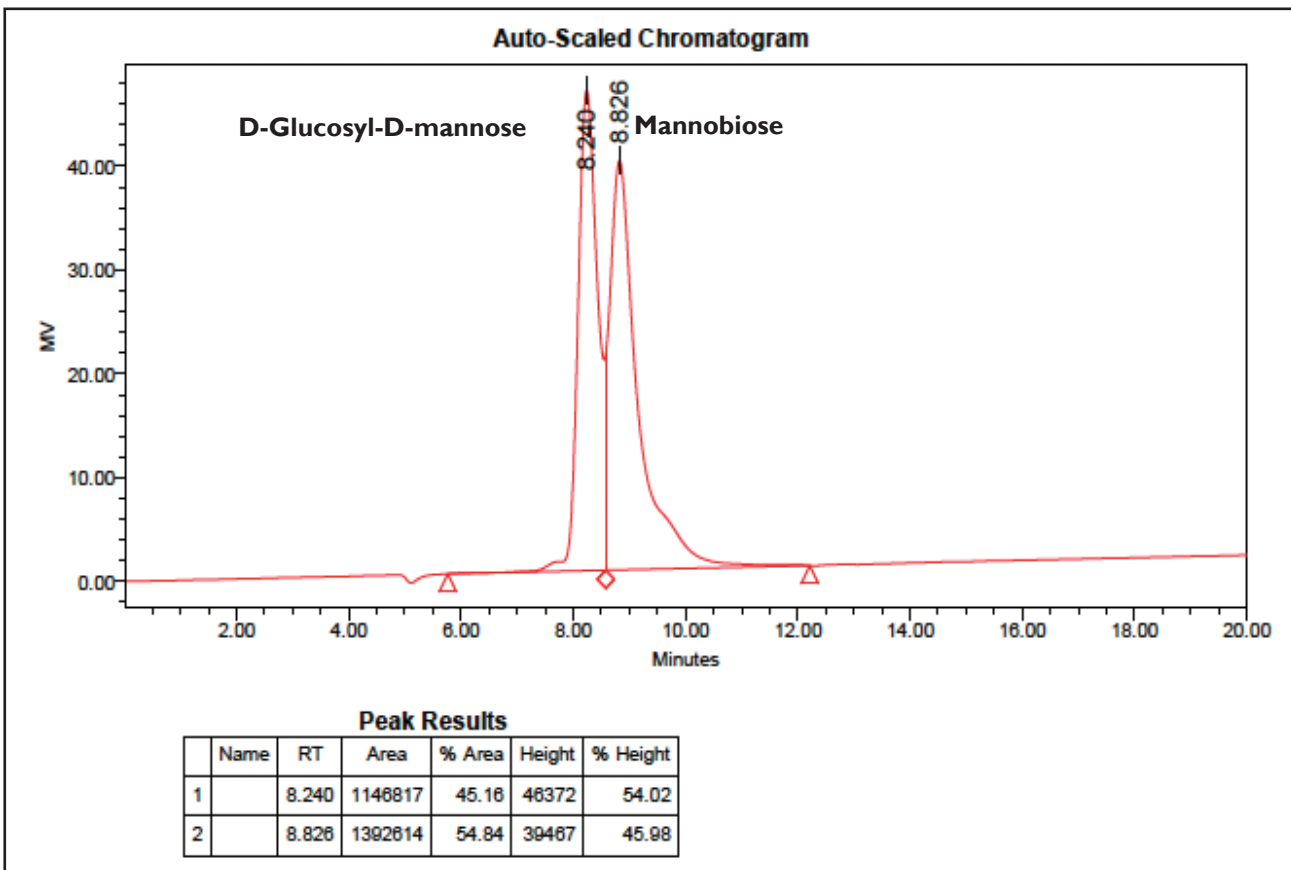


PREPARATION: Prepared by controlled enzymic hydrolysis of glucomannan.

PURITY: ~ 96% (contains trace levels of I,4-β-D-Man-D-Glc and cellobiose).

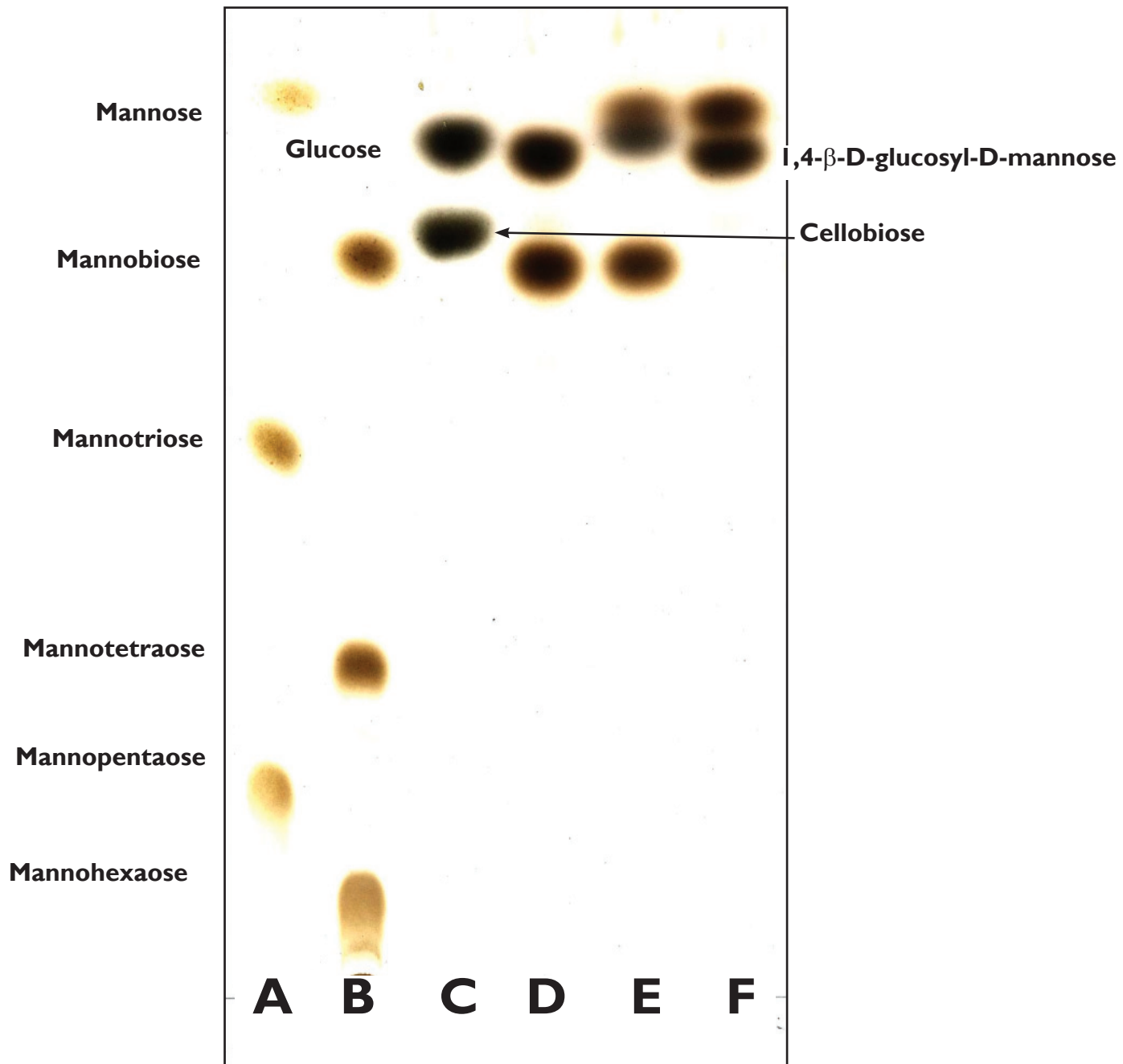
HPLC:

HPLC was performed on a Waters Sugar-Pak® Column (6 x 300 mm); temperature 90°C; mobile phase, distilled water containing 50 mg/L of disodium calcium EDTA (Sigma Cat No. ED2SC); flow rate 0.5 mL/min. A Breeze HPLC System was used incorporating Waters 2410 RI detector and Breeze Version 3.20 software.



Thin layer chromatography of the disaccharide fraction obtained on hydrolysis of konjac glucomannan by β -mannanase.

(Characterisation of the disaccharide mixture (D) by hydrolysis with β -glucosidase and β -mannosidase).



- A. Mannose; I,4- β -D-mannotriose and I,4- β -D-mannopentaose.**
- B. I,4- β -D-Mannobiose; I,4- β -D-mannotetraose and I,4- β -D-mannohexaose.**
- C. Glucose and I,4- β -D-cellobiose.**
- D. Disaccharides from β -mannanase hydrolysis of konjac glucomannan.**
- E. "D" incubated with β -glucosidase showing resistant I,4- β -D-mannobiose, plus glucose and mannose from hydrolysis of I,4- β -D-glucosyl-D-mannose.**
- F. "D" incubated with β -mannosidase showing resistant I,4- β -D-glucosyl-D-mannose, plus mannose from hydrolysis of I,4- β -D-mannobiose.**