ALDOURONIC ACIDS (Lot 131201a)

O-AMX

06/17

PREPARATION:
Aldouronic acids are prepared by the controlled acid hydrolysis of glucurono-xylan, followed by chromatographic separation of the oligomers.

PURITY:
The major component in this mixture is aldotetrauronic acid with contamination of the higher and lower homologues. A ratio of 2:5:1 for aldotriuronic : aldotetrauronic : aldopentaauronic acid is estimated by TLC (shown below). These charged oligosaccharides are difficult to completely separate chromatographically. The mixture is devoid of xylooligosaccharides. This mixture is a potential substrate for α-glucuronidase.

PRODUCT AS SUPPLIED:
Aldouronic acids (O-AMX) are quite unstable at neutral pH. Consequently, they are supplied in solution in 10 mM ammonium formate (pH 3.0). These should be stored frozen on receipt.

THIN LAYER CHROMATOGRAPHY OF ALDO-URONIC ACIDS:
Ethyl acetate : acetic acid : water (2:1:1) on Merck Silicagel 60F$_{254}$.

1. Aldouronic acids Lot 131201a.
2. Xylose, xylotriose and xylopentaose standards.
3. Xylobiose, xylotetraose and xylohexaose standards.