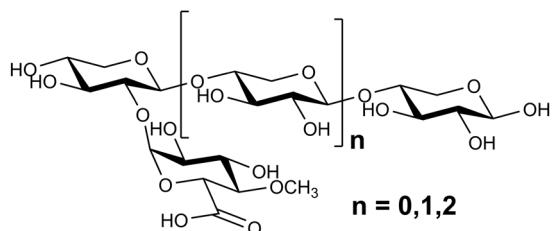


## ALDOURONIC ACIDS (Lot 131201a)

**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 : aldopentauronic 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  $\alpha$ -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<sub>254</sub>.

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

