



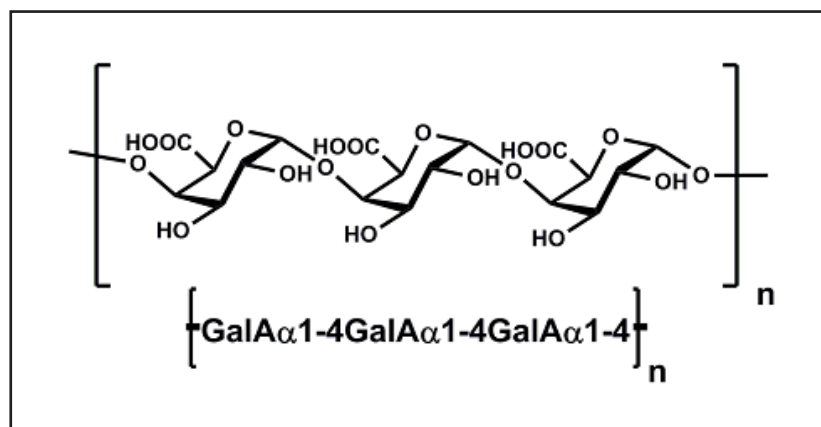
## POLYGALACTURONIC ACID (ULTRAPURE) (Lot 30404a)

CAT. NO: P-PGAUP

07/20

CAS: 9049-37-0

### STRUCTURE:



Schematic representation of polygalacturonic acid structure.

### PREPARATION:

Polygalacturonic acid is prepared from citrus pectin by partial depolymerisation with polygalacturonanase followed by demethylation, neutralisation, filtration and recovery. Typically, the polysaccharide is > 85% pure, the additional weight being sodium. Uronic acid content is ~ 96% w/w of the polysaccharide.

### PROPERTIES:

#### Sugar Composition:

Galacturonic acid	96
Galactose	1.0
Arabinose	0.2
Rhamnose	1.2
Xylose	1.0
Glucose	0.3
Protein	1.0%
Ash:	19.0%
Moisture:	4.3%

### STORAGE CONDITIONS:

Store dry at room temperature in a well-sealed container. Under these conditions, the product is stable for several years.

**METHOD OF DISSOLUTION:**

Add 1 g of polygalacturonic acid (Na salt) to 95 mL of vigorously stirring distilled water at about 40°C, and stir until the polysaccharide completely dissolves (about 10 min). Cool the solution to room temperature, and adjust the volume to 100 mL. Store this solution in a well-sealed glass container. Prevent microbial contamination by adding a few drops of toluene to the container. Store at 4°C.