(b) cultivating said Pseudomonas sp NCIB 11264 (ATCC 31260) until a substantial formation occurs of an exocellular polysaccharide; and

(c) recovering said exocellular polysaccharide from said nutrient medium.

13. The process of claim **12** wherein the step of cultivating said Pseudomonas sp NCIB 11264 (ATCC 31260) is effected in a continuous manner under nitrogen-limited conditions at 25° C. to 35° C. in a cultivation medium NH_4Cl and KH_2PO_4 supplemented with a supplementary carbon source while maintaining the pH of the cultivation medium at above 6.

14. The process of claim **12** wherein the step of recovering said exocellular polysaccharide comprises precipitating the polysaccharide with an organic mater-miscible solvent, and then deionising and freeze-drying said polysaccharide.

15. A polysaccharide produced by Pseudomonas sp. NCIB 11264 characterized by an optical rotation $[\alpha]_{22}$ of $-15°$ C. (c 0.68_{H2O}), an apparent viscosity of 4,600 cps measured at 25° C. for a one percent by weight solution, and a repeating unit which has one side chain terminated by a 4,6-O-(1-carboxyethylidene)-D-glucose and one 4,6 disubstituted glucose branch point, wherein the repeating unit comprises an acetate, a pyruvate, a 3-substituted-D-galactose, and 7 glucoses comprising a 6-substituted glucose, two 4-substituted glucoses, two 3-substituted glucoses and two 4,6-disubstituted glucoses, one of which is said branch point.

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