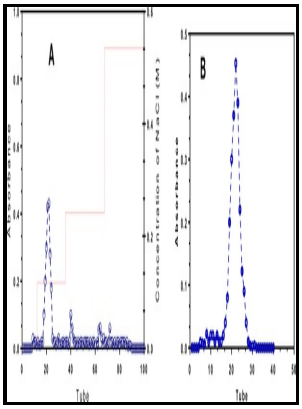
Application of cationic precipitants to the isolation and assay of acidic polysaccharides.

University of Birmingham - Reaction of PHMBH+Cl− with acidic polysaccharides, and its application to the purification of xanthan gum



Description: -
-application of cationic precipitants to the isolation and assay of acidic polysaccharides.
-application of cationic precipitants to the isolation and assay of acidic polysaccharides.
Notes: Thesis (Ph.D.) - University of Birmingham, Dept of Chemistry.
This edition was published in 1982

Tags: #US3422085A

Preparation of flocculant for optimizing glycol lignin manufacturing process by cationization of glycol lignin

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Biosynthesis of a sulfated exopolysaccharide, synechan, and bloom formation in the model cyanobacterium Synechocystis sp. strain PCC 6803

But despite the numerous studies on the specific activities of methane- and methanol-utilizing bacteria and theorization as to the metabolic pathways, very little work has been conducted regarding characterization of the biopolymers formed or in investigating the properties and utilities of these products resulting from fermentation in culture media containing methane or methanol.

The isolation of xanthan gum from fermentations of Xanthomonas campestris by complexation with quaternary ammonium salts

Preparation of Digoxigenin DIG -Labeled Probes To prepare the DIG-labeled probes, DNA fragments corresponding to the 358-bp ypqP probe, the 982-bp sprA probe, and the 535-bp sprB probe were amplified from the chromosomal DNA of B. The flocculation efficiency of F2G was lower than that of F1G and F3G. In detail, the regulated genes were xssA-E and xssL-P, which were roughly consistent with the qPCR analysis.

Maca polysaccharides: A review of compositions, isolation, therapeutics and prospects

The culture temperature was 31°C unless otherwise stated. Here, we show that a rearrangement occurs during sporulation to reconstitute a functional composite spsM gene by precise excision of SPβ from the chromosome.

Isolation, structural characterization and bioactivities of polysaccharides and its derivatives from Auricularia

The fact that no measurable viscosity was left in the supernatant in all 5 examples indicates that substantially all of the polysaccharide precipitated.

Bands indicating excision of the element 13 kb, left panel and the generation of the composite spsM 3. Thick lines indicate sprA and ypqP probes for Southern blotting.

Maca polysaccharides: A review of compositions, isolation, therapeutics and prospects

Superoxide radical-scavenging activity PEP was observed to possess a strong ability to scavenge superoxide radical Fig. We have shown that sprB was expressed in response to MMC treatment DNA damage and is developmentally regulated during sporulation, whereas sprA was expressed irrespective of the host cell status. These results suggested that the sensor histidine kinase XssS suppresses the response regulator XssR, leading to activation of the transcriptional activator XssQ.

Characterization of a novel polysaccharide isolated from Phyllanthus emblica L. and analysis of its antioxidant activities

The cyanobacterial bloom rapidly accumulates in populations of cyanobacterial cells floating on the water surface, which often produce potent cyanotoxins hepatotoxins, neurotoxins, etc.

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