

[54] POLYSACCHARIDE FOR ENHANCEMENT OF CARDIAC OUTPUT

3,911,915 10/1975 Seifter et al. 424/180

[75] Inventors: Philip I. Polimeni; Jafar Al-Sadir, both of Chicago; Anthony F. Cutilletta, Flossmoor, all of Ill.

[73] Assignee: The University of Chicago, Chicago, Ill.

[21] Appl. No.: 710,699

[22] Filed: Aug. 2, 1976

[51] Int. Cl.² A61K 31/715

[52] U.S. Cl. 424/180; 536/1; 536/4

[58] Field of Search 424/180; 536/1

[56] References Cited

U.S. PATENT DOCUMENTS

- 3,830,910 8/1974 Homsy 424/180
- 3,849,554 11/1974 Winitz 424/180

OTHER PUBLICATIONS

Smith Thesis "The Subacute Toxicity of Intravenously Administered Okra Mucilage," Clemson U. Library, May, 1973.

Primary Examiner—Johnnie R. Brown
Attorney, Agent, or Firm—Merriam, Marshall & Bicknell

[57] ABSTRACT

Polysaccharide substances—essentially consisting of rhamnose, galactose and galacturonic acid and preferably derived by extraction and purification of okra plant materials—are administered to provide selective rheological and hemodynamic effects and specifically to enhance cardiac output without substantial increment in circulatory (plasma) volume or concurrent inotropic, chronotropic or vasoactive effects.

5 Claims, 4 Drawing Figures