

(54) Title of the invention : COATING ACTIVITIES OF NOVEL GUM POLYSACCHARIDE OBTAINED FROM THE BARK EXUDATE OF BUCHANANIA LANZAN AND METHOD THEREOF

(51) International classification :A61K0008730000, C08B0037000000, A61K0009200000, A61K0031715000, C11D0003220000

(86) International Application No :NA  
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

## (71)Name of Applicant :

**1)Brainware University, Kolkata**

Address of Applicant :398, Ramkrishnapur Rd, Near Jagadighata Market, Barasat, Kolkata, West Bengal 700125 -----

**Name of Applicant : NA****Address of Applicant : NA**

## (72)Name of Inventor :

**1)Dr. Saptarshi Samajdar**

Address of Applicant :Associate Professor, Department of Pharmaceutical Technology, Brainware University, 398, Ramkrishnapur Road, North 24 Parganas, Kolkata-700122 -----

**2)Mr. Sumon Giri**

Address of Applicant :Assistant Professor, Department of Pharmaceutical Technology, Brainware University, 398, Ramkrishnapur Road, North 24 Parganas, Kolkata-700122 -----

**3)Ms. Zainab Irfan**

Address of Applicant :Assistant Professor, Department of Pharmaceutical Technology, Brainware University, 398, Ramkrishnapur Road, North 24 Parganas, Kolkata-700122 -----

## (57) Abstract :

The present invention discloses coating activities of novel gum polysaccharide obtained from the bark exudate of Buchanania lanzan and method thereof. The present invention reveals a method for isolating and purifying polysaccharide from Chironji gum. The process includes washing and boiling the gum, followed by filtration, centrifugation, and precipitation stages, yielding an isolated polysaccharide. The subsequent purification employs a sintered glass column packed with Sepharose 6B and purified water. The isolated polysaccharide undergoes Molisch tests for sugar determination, with eluents freeze-dried for yield, which is found to be about 7.4%. The patent also introduces a method to measure the fat-binding capacity of the isolated polysaccharide. It involves creating a polysaccharide-soyabean oil suspension, periodically shaken and centrifuged to separate supernatant and sediment. The isolated polysaccharide is applied as an adjuvant with Hydroxypropyl Methyl Cellulose for tablet film coating, achieving controlled release compared to tablets coated solely with HPMC.

No. of Pages : 19 No. of Claims : 9