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Patent Search

Invention Title	PROCESS FOR ISOLATION, CHARACTERIZATION & EVALUATION OF NATURAL POLYMER FROM ADANSONIA DIGITATA FRUIT.
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Abstract:

In present innovation is depend on process and technique used for Isolation, Characterization & Evaluation of Natural Polymer from Adansonia digitata fruit. Further formulated and evaluated gelling property and suspending property of isolated mucilage. Finally we, formulated and evaluated of Suspending property of Adansonia Mucilage.

Complete Specification

amaranth solution were added gradually with constant stirring and then mixed with 50mL of chloroform water (double strength). The mixture was transferred into amber coloured, stoppered measuring cylinder, made up to volume with distilled water and then shaken vigorously for 2 min (thus making 0.50%w/v of the preparation).The procedure was repeated using 0.5% w/v and 1.0%w/v of Gum Tragacanth. The above procedure was repeated with mucilage isolated from Fruit of Adansonia digitataat concentrations 0.5%w/v, 1.0%w/v, and 1.5% w/v.

Exploration of gelling property of mucilage

The test was performed on gel by using different concentrations viz; 2.5, 3.5 and 4.5%w/v of Tragacanth and ADM gel. Three glass plates were taken; to each of the plates a specified weight of prepared gel was applied. Another clean slide was placed over the first plate and applied solution was made to spread between the two plates by placing weight on the glass plates. It was kept undisturbed for specified period of time viz; 15, 30 and 60 min, then one side of glass plate was fixed to a holder the other end was connected to a wire passing over a pulley and at the end of pan weight was attached, after a specified period of time viz; 15, 30 and 60 min, weight placed in an increasing manner till the plates attached with polymer got detached. The weight which just detaches, were noted.

Exploration of mucilage as a carrier for mucoadhesive drug delivery

Mucoadhesive characterization of ADM with existing polymer The mucoadhesive characterization of synthetic, semi synthetic or natural gum/mucilage involves various evaluation techniques with different methods studies with Slightly Modification. To confirm the mucoadhesive character of the selected natural mucoadhesive agent it was compared to other existing mucoadhesive polymer like hydroxyl propyl cellulose (HPC).

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