

Enkapsulasi bromelain pada hidrogel kitosan-poli n-vinil pirolidon full ipn = Encapsulation of bromelain in hydrogel chitosan poly n vinyl pyrrolidone full ipn

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Abstrak

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Bromelain merupakan suatu enzim yang memiliki banyak manfaat ketika diserap di dalam usus halus. Namun bromelain akan rusak jika melewati pH lambung secara langsung, sehingga bromelain perlu dilapisi agar tahan melewati pH lambung dan terdisolusi tepat di usus halus. Matriks hidrogel kitosan-poli N-vinilpirrolidon full-IPN dipilih untuk membawa bromelain dan mengantarkannya tepat ke usus halus. Nilai rata-rata efisiensi enkapsulasi post loading matriks hidrogel kitosan-poli N-vinilpirrolidon full-IPN dengan metode lowry didapatkan sebesar 99,02 . Sedangkan, rata-rata nilai disolusinya secara in vitro pada pH 1,2 dan pH 7,4 dengan menggunakan metode lowry berturut-turut sebesar 25,8 dan 13,57 .

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Bromelain is an enzymes that has many benefits when absorbed in intestine. However bromelain will be damaged if it passes the pH of the gastric directly, so bromelain need to be coated to resist passing through the pH of the gastri and disolution right in the intestine. The matrix of the hydrogel chitosan poly N vinyl pyrrolidone full IPN is selected to bring bromelain and drove him right into intestine. Value of the average efficiency of encapsulation post contains a matrix of hydrogel chitosan poly N vinyl pyrrolidone full IPN by method of lowry obtained by 99,02 . While the average value of the disolution at in vitro at pH 1,2 and pH Of 7,4 by using method of lowry in a row by 25,8 and 13,57 .