

Prototipe gel elektrode konduktif dengan penambahan nano partikel solanum tuberosum : sintesis dan pengujian = Prototype of electrode conductive gel with the addition of solanum tuberosum nanoparticle : synthesis and testing

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Abstrak

[ABSTRAK

Penelitian ini bertujuan untuk mensintesis gel elektrode konduktif berbasis carbopol polymer dengan variasi konsentrasi penambahan solanum tuberosum (sari, pati, nano partikel bentuk suspensi, nano partikel bentuk serbuk) 1%, 5%, dan 10%. Gel hasil sintesis diuji, terdiri dari : organoleptis (warna, bau, dan homogenitas), pH, viskositas dan sifat alir, daya sebar, impedansi, uji mikrobiologi dan uji iritasi pada kelinci. Data hasil penelitian dianalisis dengan Meann-Whitney. Hasil penelitian ini menunjukkan bahwa penambahan nano partikel Solanum Tuberosum bentuk serbuk dengan konsentrasi 5 % berbasis carbopol polymer dapat dibuat menjadi gel elektrode konduktif.

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ABSTRACT

This study aims to synthesize electrode conductive gel based on carbopol polymer with the addition of solanum tuberosum (pollen, starch, nanoparticle suspension, nanoparticle starch) to the concentration variation of 1%, 5%, and 10%. The result of gel's synthesized tested for the consisting of : organoleptic (color, odor, and homogeneity), pH, viscosity and rheogram, dispersive power, impedance test, microbiology and irritation in rabbit. The data were analyzed statisically by Mean Whitney. The results of this study indicate that the addition of solanum tuberosum nanoparticle starch into gel based on carbopol polymer can be made to be electrode conductive gel., This study aims to synthesize electrode conductive gel based on carbopol polymer with the addition of solanum tuberosum (pollen, starch, nanoparticle suspension, nanoparticle starch) to the concentration variation of 1%, 5%, and 10%. The result of gel's synthesized tested for the consisting of : organoleptic (color, odor, and homogeneity), pH, viscosity and rheogram, dispersive power, impedance test, microbiology and irritation in rabbit. The data were analyzed statisically by Mean Whitney. The results of this study indicate that the addition of solanum tuberosum nanoparticle starch into gel based on carbopol polymer can be made to be electrode conductive gel.]