

Modifikasi kimia fraksi polimer maltodektrin DE 5-10 pati sagu (Metroxylon sagus) dengan fosfor oksiklorida sebagai bahan pensuspensi

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Abstrak

Chemical modification of maltodextrin DE(5-10) polymer fraction of sago starch (Metroxylon) with phosphorochloride as suspending agent: Based on a previous report, maltodextrin DE 5-10 polymer fraction did not stable as the suspending agent in aging for twelve week.

Therefore to develop a stable maltodextrin DE 5-10 polymer fraction as suspending agent has to attempt by chemical modification. In this research chemical modification had been done with 0,25% POCl₃ at pH9, and temperature 29 0C. The product was used as suspending agent 5%, 10% and 15% and paracetamol as a model.

The results of suspension characteristic evaluation of both sedimentation volume, rate of solid redispersion, viscosity, pH and paracetamol concentration, showed the suspension quality with flocculation system, stability of viscosity and pH, easiness to disperse, and the concentration of paracetamol conform to Phamarcopoe Indonesia 3 ed.