Formulation of a Coating for Tablets Based on Carboxymethylcellulose of Opuntia spp.

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The constant innovation and search for new technologies is a fundamental part of the development of the national pharmaceutical industry, wich has a integral implication in the development and improvement of medicines currenly used, as well as to solve the productive and estability problems that some commercial coathings, such as reconstitution, desintegration time, permeability to moiture and oxygen and others. the collateral impacts mainly correspond to the economic development for our region and implicit the generation of a company that promotes jobs and archieve the productive development, besides reducing the use of the biomass thee combustion pf the cladodes of dry nopal and generathing, a useful product since the community of the valley of teotihuacan depends mainly ob tourism; handicraft processing, nopal cultivation and prickly pears for human consumption. The hypothesis to be verified: if it is possible to extract cellulose from de mature opuntia cladodes and convert it to carboxymethylcellulose, then it is feasible to formulate a coathing for tablets by incorporathing a platicizer-adherent system that has a better performance against oxidation, better distribution of the coathing on the surface and in addition to decreasing the desintegration time. Objective: to establish the formulation and evaluation pharmacopeical of the coathing for tablets using as base for their elaboration cladodes of opuntia and a system plasticizer-adherent that improve the mechanical and appareance properties than those present in commercial coathings.

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