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Effect Of Polyvinyl Pyrrolidone And

The long-term effects of crosopovidone or povidone within the lung are unknown.) PVP added to iodine forms a complex called povidone-iodine that possesses disinfectant properties. This complex is used in various products like solutions, ointment, pessaries, liquid soaps and surgical scrubs.

Polyvinylpyrrolidone - Wikipedia

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When synthesizing nanoparticles in the liquid phase, polymeric materials (mainly polyvinylpyrrolidone, PVP) are applied as capping and/or stabilizing agents. The polymer layer on the nanoparticles must likely be removed since it blocks the active sites of the catalyst and inhibits mass transfer of the reactants. Ho

Effect of polyvinylpyrrolidone (PVP) on palladium ...

PVP is a polymer with a hydrophobic alkyl backbone and hydrophilic pendant groups, which can be envisaged to coil around the CNTs so that its backbone is in good contact with the surface of CNTs and consequently pyrrolidone groups are exposed to water.^{154,181} Polynucleotides are rearranged in an opposite way to PVP, since they have a hydrophilic sugar-phosphate backbone with relatively hydrophobic aromatic nucleotide bases as pendants.

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Polyvinylpyrrolidone - an overview | ScienceDirect Topics

The effect of polyvinyl pyrrolidone (PVP) addition in the ordinary cement and mortar mixes on the properties such as setting time, heat of hydration, compressive and tensile strength has been studied by adding 0.5 to 5.0% additive by weight of cement.

Effect of Polyvinyl Pyrrolidone on Strength and Some Other ...

Background: The aim of present study is to evaluate the effect of PolyVinyl Pyrrolidone (PVP) routinely used during ICSI procedure on sperm membrane integrity, and sperm chromatin status.

(PDF) Effect of PolyVinyl Pyrrolidone on Sperm Membrane ...

Polyvinyl pyrrolidone (PVP), a kind of nonionic surfactant, has been widely employed as structure-directing agent in the preparation of nano-/micromaterials. Lee et al. added PVP during

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the preparation of mesoporous palladium, and the as-prepared nano-spheres changed bigger and more homogeneous with better performance . PVP molecules could shield the adsorption of ions around and improve the stability of solution, induce the growth of crystal to a certain direction and achieve surficial ...

The regulatory effect of polyvinyl pyrrolidone on the ...

The interaction between polyvinyl pyrrolidone (PVP) and two disazo dyes of different chemical composition has been examined from the results of spectrophotometry, conductometry, and viscosity measurements. The amounts of PVP required for interaction with these dyes depend on the molecular weight of PVP.

Interaction of Polyvinyl Pyrrolidone with Disazo Dyes - G

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Synergistic effect between polyvinyl pyrrolidone and oxygen

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vacancies on improving oxidase-mimetic activity of flower-like CeO₂ nanozymes

Synergistic effect between polyvinyl pyrrolidone and ...

Polyvinyl-pyrrolidone-iodine complex (PVP-I) was shown to have a rapid disinfectant activity in vitro against vegetative bacteria and fungi and against vegetative Trichomonas. The presence of organic matter had a slight delaying effect on the killing time.

Polyvinyl-pyrrolidone-iodine: an assessment of ...

Polyvinylpyrrolidone. Excipient (pharmacologically inactive substance) Medically reviewed by Drugs.com. Last updated on Apr 10, 2019. What is it? Polyvinylpyrrolidone, also known as povidone or PVP, is used in the pharmaceutical industry as a synthetic polymer vehicle for dispersing and suspending drugs.

Polyvinylpyrrolidone (Inactive Ingredient) - Drugs.com

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The change of the physical and release properties of matrices could be explained by the hygroscopic nature of polyvinyl pyrrolidone causing water uptake; absorbed water then acts as a plasticizer of polyvinyl acetate promoting plastic flow, deformation, and coalescence of particles, and altering the matrices internal structure.

Effects of Thermal Curing Conditions on Drug Release from ...

Abstract: Nanosized silver (Ag) was synthesized by reducing high concentration AgNO₃ in N, N-dimethylformamide (DMF), in the presence of stabilizer polyvinyl pyrrolidone (PVP). PVP of two different molecular weights (MW=40000, 1300000) at the reaction temperature of 80°C and 100°C were tested for the effect on the formation of diverse silver ...

Effect of polyvinyl pyrrolidone molecular weight on the ...

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Automatic Continuous Online Monitoring of Polymerization Reactions (ACOMP) was used to monitor the free radical polymerization of polyvinyl pyrrolidone (PVP) throughout the reaction. Two batch reactions were run at 1.5% and 2.5% initiator concentration to monitor the effect of a small change in initiator concentration on reaction kinetics ...

Monitoring the effect of initiator concentration on Mw and ...

Background, aims: Polyvinyl pyrrolidone (PVP) was shown in vitro to reduce chlorhexidine induced, dietary staining without affecting the uptake of the antiseptic to the test substrate. The aim of these studies in vivo was to determine whether PVP affected plaque and dietary staining by a low concentration chlorhexidine rinse.

Studies on the effect of polyvinyl pyrrolidone on the ...

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The primary aim of this study was to develop polyvinyl alcohol and polyvinyl pyrrolidone blended hydrogels and to evaluate their feasibility for delivering DH via a transdermal route. Physicochemical properties, such as gel fraction (%), swelling ratio (%), weight loss (%), mechanical strength, elongation at break, and Young's modulus of the ...

Preparation, Characterization, and In Vivo Pharmacokinetic ...

research effect of IL on behavior of polymer were investigated. Therefore, the aim of this study was to find the effect of concentration of ionic liquid on the coil's hydrodynamic volume of polyvinyl pyrrolidone in aqueous solutions. The thermodynamic parameters of polymer solution were evaluated by temperature dependence

Effect of ionic liquid on the intrinsic viscosity of ...

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1. The distribution of polyvinyl pyrrolidone along the intestinal lumen and in the intestinal wall, following oral administration to normal and corticosterone treated rats, was found to be extremely variable. Valid comparisons between the two groups of animals could not be made using this technique. 2.

The effects of corticosterone and cortisone on the uptake

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The pHEMA implant significantly increased scleral thickness by the third week, and the implant became encapsulated with fibrous tissue. The PVP-injected eyes left otherwise untreated, showed a significant increase in scleral thickness, due to increased chondrocyte proliferation and extracellular matrix deposition.

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