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the cht5 was synthesized by controlled depolymerization of cht4 using 0.25% (w/w) sodium periodate solution in methanol in the presence of kcl as an additive. this solution was added gradually to chitosan solution to get desired viscosity level and stirred for 2 hrs at 20c. the depolymerized chitosan was then precipitated out by caustic solution and washed to neutral ph. the precipitates of chitosan was then washed 3 to 4 times with methanol and dried at 60c. the product obtained from cht4 is termed as cht6 whereas the product obtained from cht5 is termed as cht7. the reaction yield obtained from cht6 is found to be 90-95%. the purity of cht6 was found to be 99.1%. the cht6 was insoluble in water but soluble in basic solution. the cht7 was soluble in water but insoluble in most organic solvents. the chitosan was prepared by the method developed by li and co-workers [29] and chitosan of different molecular weight was obtained by varying the concentration of acid used in the reaction. the viscosity of the solution was found to be a function of the molecular weight of chitosan. the viscosity of the solutions of chitosan was found to be much more in case of aqueous solutions when compared to deionized water. the viscosity of solution in aqueous chitosan solution was found to be in the range of 5.0-37.5 mpa s with maximum viscosity observed in the case of solution of chitosan with molecular weight of . the viscosity of aqueous solutions was found to decrease with increase in temperature and the range of increase was higher for aqueous solutions of chitosan with higher molecular weight as shown in figure 1. the viscosity of the solution decreased with increase in the concentration of chitosan as shown in figure 2. the viscosity of the solution decreased with increase in the molecular weight of chitosan and also with decrease in the concentration of chitosan. the viscosity of aqueous solutions of chitosan was found to decrease when dissolved in distilled water. the viscosity of the solution decreases with increase in temperature which is in contrary to the findings of previous research. the viscosity of the solution decreases with increase in the concentration of chitosan. the viscosity of the solution decreases with increase in the molecular weight of chitosan and also with decrease in the concentration of chitosan. the viscosity of the solution decreases with increase in the temperature. this indicates that the viscosity of the solution decreases with increase in the molecular weight of chitosan and also with decrease in the concentration of chitosan. the reason for the decrease in the viscosity of the solution with increase in temperature can be attributed to the presence of the biopolymer in the solution. the biopolymer has some hydrophilic parts and some hydrophobic parts. in case of lower concentration of polymer, the solubility of the polymer will be less and the solubility of the polymer will be more in case of higher concentration of polymer. for the same reason, the solubility of the polymer will be higher at higher temperature. this indicates that the solubility of the polymer will be more at higher temperature. this is because the polymer molecules will be more in the polymer solution at higher temperature and hence the solubility of the polymer will be more. the viscosity of the solution was found to be more at lower concentration of polymer. this is because with lower concentration of polymer, the solution viscosity will be more. the viscosity of the solution decreases with decrease in the size of the particles. the viscosity of the solution decreases with increase in the concentration of electrolyte.

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the viscosity of chitosan solution is adversely affected with increase in storage time. it is likely that the storage stability of chitosan solution is governed by the bulk degradability of chitosan which is lower than its surface degradation. therefore, the presence of degradation products in chitosan solution, due to storage time, cannot be ruled out. it is also observed that increase in storage time decreases the viscosity of chitosan solution. this decrease in viscosity is primarily due to the degradation of polymer. the increased surface area of the nanoparticles results in faster degradation of the polymer. as the molecular weight of chitosan is higher, the degradation of polymer also increases, leading to greater viscosity of the solution. in addition to this, the presence of electrolyte in solution also degrades the polymer, leading to lower viscosity. chitosan is applied to textile in the form of padding solution where the chemical remains in contact with water for a longer period. as biodegradability of chitosan is a well-known phenomenon the effect of storage time on the stability of its solution was studied in terms of change in solution viscosity. it is seen from figure 5 that the viscosity of chitosan solution is adversely affected with increase in storage time. though the reduction in viscosity of chitosan solution in storage time is significant, yet the viscosity of chitosan solution remains constant for a much longer period. this can be attributed to the presence of large number of particles of chitosan which are present in solution which are not degraded. the viscosity of chitosan solution is adversely affected with increase in storage time. it is likely that the storage stability of chitosan solution is governed by the bulk degradability of chitosan which is lower than its surface degradation. therefore, the presence of degradation products in chitosan solution, due to storage time, cannot be ruled out. it is also observed that increase in storage time decreases the viscosity of chitosan solution. this decrease in viscosity is primarily due to the degradation of polymer. the increased surface area of the nanoparticles results in faster degradation of the polymer. as the molecular weight of chitosan is higher, the degradation of polymer also increases, leading to greater viscosity of the solution. 5ec8ef588b

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