

3. Conclusion

X-ray diffraction studies indicated that ZincOxide nanocomposite hydrogels are micro-crystalline in nature. Swelling behaviour increases with the increase in pH of the solution. The diffusion of ZincOxide nanocomposite hydrogel systems has non-Fickian character. The drug loading is effectively observed in Poly (NTA-NVP)ZincOxide nanocomposite hydrogel and Poly (NTB-NVP)ZincOxide nanocomposite hydrogel. Protein loading is efficient in Poly(NCA-NVP).

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