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(54) Title of the invention : SOLID DISPERSION COMPOSITION OF VORICONAZOLE AND CARBOXYMETHYLATED TAMARIND GUM

<p>(51) International classification :A61P0031100000, A61K0009140000, A61K0009000000, A61K0009160000, A61K0031506000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Mr. Atish Baburao Velhal Address of Applicant :KES's, Rajarambapu College of Pharmacy, Kasegaon, Sangli. PIN- 415404 Shivaji University,Kolhapur YSPM's, YTC, Faculty of Pharmacy, Wadhe, Satara PIN-415011 Kasegaon -----</p> <p>2)Dr. Vijay Rajaram Salunkhe Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. Atish Baburao Velhal Address of Applicant :KES's, Rajarambapu College of Pharmacy, Kasegaon, Sangli. PIN- 415404 Shivaji University,Kolhapur YSPM's, YTC, Faculty of Pharmacy, Wadhe, Satara PIN-415011 Kasegaon -----</p> <p>2)Dr. Vijay Rajaram Salunkhe Address of Applicant :KES's, Rajarambapu College of Pharmacy, Kasegaon, Sangli. PIN- 415404 Kasegaon -----</p>
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(57) Abstract :

The present invention provides a process for improving the solubility of voriconazole in aqueous solutions. The present invention also provides a composition comprising voriconazole and a carboxymethylated tamarind gum obtainable by chemical reaction process, a method of treating a fungal infection, a pharmaceutical composition comprising the composition comprising voriconazole and a carboxymethylated tamarind gum and the use of a therapeutically effective amount of the composition comprising voriconazole and a carboxymethylated tamarind gum and necessary pharmaceutically acceptable excipients for the preparation of a medicament for treating a fungal infection. Voriconazole loaded solid dispersion (SD) was developed by kneading method. Solid dispersion of Voriconazole manufactured with modified tamarind gum has approximately 5.62 to 62.5-fold solubility enhancement in water while in case of Solid Dispersion with Carboxymethylated tamarind gum showed 68.12-to-74.37-fold solubility enhancement. The dissolution profiles of all formulation batches were found to be improved compared to the drug release obtained from solid dispersions.

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