

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241069519 A

(19) INDIA

(22) Date of filing of Application :01/12/2022

(43) Publication Date : 09/12/2022

(54) Title of the invention : A PROCESS OF PREPARATION OF TINIDAZOLE DRUG SOLUTION WITH ENHANCED BIOAVAILABILITY

<p>(51) International classification :A61K0047100000, A61K0047440000, A61K0009107000, A61K0031416400, A61P0031040000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</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 : <b>1)ANNAMALAI UNIVERSITY</b> Address of Applicant :ANNAMALAI UNIVERSITY CUDDALORE ANNAMALAI NAGAR TAMIL NADU INDIA 608002 ANNAMALAI NAGAR -----</p> <p><b>Name of Applicant : NA</b> <b>Address of Applicant : NA</b></p> <p>(72)Name of Inventor : <b>1)SASMITA DASH</b> Address of Applicant :DEPARTMENT OF CHEMISTRY, ANNAMALAI UNIVERSITY CUDDALORE ANNAMALAI NAGAR TAMIL NADU INDIA 608002 ANNAMALAI NAGAR -----</p> <p><b>2)PAULRAJ .E</b> Address of Applicant :DEPARTMENT OF CHEMISTRY, ANNAMALAI UNIVERSITY CUDDALORE ANNAMALAI NAGAR TAMIL NADU INDIA 608002 ANNAMALAI NAGAR -----</p> <p><b>3)BHARATHI .B</b> Address of Applicant :DEPARTMENT OF CHEMISTRY, ANNAMALAI UNIVERSITY CUDDALORE ANNAMALAI NAGAR TAMIL NADU INDIA 608002 ANNAMALAI NAGAR -----</p> <p><b>4)SUTHARSAN .K</b> Address of Applicant :DEPARTMENT OF CHEMISTRY, ANNAMALAI UNIVERSITY CUDDALORE ANNAMALAI NAGAR TAMIL NADU INDIA 608002 ANNAMALAI NAGAR -----</p>
--	---

(57) Abstract :

TITLE: A PROCESS OF PREPARATION OF TINIDAZOLE DRUG SOLUTION WITH ENHANCED BIOAVAILABILITY  
APPLICANT: ANNAMALAI UNIVERSITY ABSTRACT The present invention discloses a process of preparation of a drug composition with enhanced solubility and bioavailability for treating protozoal and bacterial infections. The process of the present invention comprises of a. preparing aqueous solution of hydrophobic surfactant pluronic L-35 by dissolving pluronic L-35 with distilled water; b. preparing aqueous solution of hydrophilic surfactant pluronic F-127 by dissolving pluronic F-127 with distilled water; c. preparing a mixed micellar systems by mixing the aqueous solution of hydrophobic surfactant pluronic L-35 with the aqueous solution of hydrophilic surfactant pluronic F-127; d. dissolving Tinidazole in DMSO and evaporating to dryness followed by diluting with triple distilled water to obtain a drug solution and e. characterized in mixing the drug solution in the mixed micellar media to obtain a solubility enhanced drug composition. The present invention also discloses a drug composition with enhanced solubility and bioavailability for treating protozoal and bacterial infections prepared by the process described above.

No. of Pages : 14 No. of Claims : 4