

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211043381 A

(19) INDIA

(22) Date of filing of Application :28/07/2022

(43) Publication Date : 05/08/2022

(54) Title of the invention : α -Amylase Inhibitor Composition (AIC) of Thiazolidinone Derivative of Spiropyrolidine and Triazole having Methyl- Substitution at Terminal Phenyl Groups.

(51) International classification :C07D0277140000, C07D0249080000, A61K0031427000, C07D0417040000, C07K0005020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Kurukshetra University

Address of Applicant :Kurukshetra-136119, Haryana

Kurukshetra -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Parvin Kumar

Address of Applicant :Department of Chemistry, Kurukshetra University, Kurukshetra-136119, Haryana, INDIA Kurukshetra ---

2)Sohan Lal

Address of Applicant :Department of Chemistry, Kurukshetra University, Kurukshetra-136119, Haryana, INDIA Kurukshetra ---

3)Meenakshi Duhan

Address of Applicant :Department of Chemistry, Kurukshetra University, Kurukshetra-136119, Haryana, INDIA Kurukshetra ---

4)Rahul Singh

Address of Applicant :Department of Chemistry, Kurukshetra University, Kurukshetra-136119, Haryana, INDIA Kurukshetra ---

(57) Abstract :

The present invention relates to a novel α -amylase inhibitor composition (AIC) comprising: a thiazolidinone derivative of spiropyrolidine and triazole, characterized in that the thiazolidinone derivative of spiropyrolidine and triazole comprises a combination of: (a) thiazolidinone moiety; (b) spiropyrolidine moiety; and (c) triazole moiety; and wherein the thiazolidinone derivative of spiropyrolidine and triazole has a structural Formula-I, wherein both terminal phenyl rings are essentially substituted by a methyl- (-CH₃) group in a para-position at positions numbered as 13 and 34: Formula-I In one embodiment, the present invention relates to a pharmaceutical composition comprising the α -amylase inhibitor composition (AIC) of the present invention as a main active ingredient of the pharmaceutical composition and optionally a pharmaceutically acceptable

No. of Pages : 15 No. of Claims : 4