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(54) Title of the invention : A NOVEL PHARMACEUTICAL COMPOSITION COMPRISING PSIDIUM CATTLEIANUM ROOT EXTRACT FOR ANTIDIABETIC ACTIVITY

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(57) Abstract :

The present invention relates to novel pharmaceutical composition comprising standardized aqueous and ethanolic extracts of Psidium Cattleianum roots demonstrating potent antidiabetic activity through dual enzyme inhibition mechanisms. The invention encompasses comprehensive pharmacognostical characterization establishing physicochemical parameters including 8.50% loss on drying, 0.70% acid-insoluble ash, 9.2% water-soluble ash, 11.06% alcohol-soluble extractive value and 9.2% water-soluble extractive value. Phytochemical investigation reveals presence of therapeutically significant bioactive constituents including alkaloids, carbohydrates, flavonoids, glycosides, tannins and triterpenoids. Thin layer chromatography demonstrates three distinct spots with Rf values of 0.09, 0.25 and 0.41. High performance thin layer chromatography identifies thirteen constituents in chloroform extract and nine constituents in ethanolic extract. The hydroalcoholic extract demonstrates significant alpha-amylase inhibition with IC50 value of 116.49 micrograms per milliliter and alpha-glucosidase inhibition with IC50 value of 118.203 micrograms per milliliter, comparable to standard drug acarbose, establishing therapeutic efficacy for diabetes management through delayed carbohydrate metabolism and postprandial glucose control.

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