(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :25/04/2023

(21) Application No.202341029694 A

(43) Publication Date: 05/05/2023

(54) Title of the invention: UV-VISIBLE SPECTROSCOPIC METHOD FOR DETERMINATION OF CANAGLIFLOZIN IN PHARMACEUTICAL DOSAGE FORM AND USES THEREOF

(71)Name of Applicant:

1)Prof. R. Kamaraj

Address of Applicant :Department of Pharmaceutical Regulatory Affairs, SRM College of Pharmacy, SRMIST, Kattankulathur-603203, Chennai, Tamil Nadu, India Chennai

2)T. Sudbeer Kumar

3)K. Navyaja

4)M. Bharathi 5)Mr. R. Manikandan

6)Dr. K. Mythili

7)Dr. Bairi Agaiah Goud

8)Dr. Rajanikant T Kakade

9)R S Chandan

10)Dr. V. T. Iswariya Name of Applicant : NA Address of Applicant : NA

(72)Name of Inventor : 1)Prof. R. Kamaraj

Address of Applicant :Department of Pharmaceutical Regulatory Affairs, SRM College of Pharmacy, SRMIST, Kattankulathur-603203, Chennai, Tamil Nadu, India Chennai

(51) International classification :A61K 313810, C07D 091000, C08G 770000, C23C 164000, G01N 213300

(86) International Application No :PCT// Filing Date :01/01/1900

Filing Date :01/01/
(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 2)T. Sudheer Kumar

Address of Applicant : Assistant Professor, Department of Pharmaceutical Regulatory Affairs, SRM College of Pharmacy, SRMIST, Kattankulathur-603203, Chennai, Tamil Nadu, India

3)K. Navyaja

Address of Applicant :Research Scholar, Department of Pharmaceutical Regulatory Affairs, SRM College of Pharmacy, SRMIST, kattankulathur- 603203, Chennai, India Chennai

4)M. Bharathi

Address of Applicant :Research Scholar, Department of Pharmaceutical Regulatory Affairs, SRM College of Pharmacy, SRMIST, Kattankulathur-603203, Chennai, India Chennai

5)Mr. R. Manikandan

Address of Applicant: Associate Professor, Kamalakshi Pandurangan college of Pharmacy, Ayyampalayam, Tiruvannamalai-606603 Ayyampalayam -------

6)Dr. K. Mythili

Address of Applicant :Professor, Department of pharmaceutical analysis, Kamalakshi Pandurangan college of pharmacy, Tiruvannamalai 606603 Ayyampalayam

7)Dr. Bairi Agaiah Goud

Address of Applicant :Principal & HOD department of Pharmaceutics, S.R.R College of Pharmaceutical sciences, Valbhapur (V), Elakthurthy (M), Hanamkonda Dist., Telangana 505476 Valbhapur ---------

8)Dr. Rajanikant T Kakade

Address of Applicant :Principal, Siddhi's Institute of Pharmacy, Nandgaon, Murbad, Dist. Thane, Maharashtra Murbad

9)R S Chandan

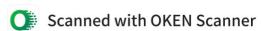
10)Dr. V. T. Iswariya

Address of Applicant :Assistant Professor, Department of Pharmaceutics, CMR College of pharmacy, Kandlakoya (V), Medchal Rd, Hyderabad, Telangana 501401 Kandlakoya ------

(57) Abstract

The present invention provides a method for using Ultraviolet–Visible spectroscopy to estimate canagliflozin in pharmaceutical dosage form. The method for determination of Canagliflozin, comprising of preparing different concentration of Canagliflozin solutions using methanol as solvent; preparing UV spectra of Canagliflozin solution using spectrophotometer to obtain wavelength of maximum absorption and absorbance of Canagliflozin; plotting calibration curve of Canagliflozin at wavelength of 286 nm by taking absorbance on y-axis and concentration of solution on x-axis; computing concentration of unknown Canagliflozin from equation of calibration curve using formula. The method for the estimation of Canagliflozin in bulk powder, wherein the Beer's law limit for estimation is in the range of 0.5-2.5 µg/ml. The method for the estimation of Canagliflozin in tablet, comprising of weighing accurately 10mg of Canagliflozin and transferring into clean, dry 100ml volumetric flask and dissolving with sufficient amount of methanol; making up volume of solution upto 100ml with methanol to obtain concentration of 100µg/ml; pipetting out aliquots of solution in 5 distinct 10ml volumetric flasks in quantities of 0.5, 1,1.5, 2,2.5 ml; filling the volumes of flasks with methanol to achieve concentrations of 0.5-2.5 g/ml; measuring absorbance of working standard solutions for Canagliflozin at 286nm; plotting graph of concentration (on X-axis) Vs mean response (on Y- axis); plotting calibration curves using concentration range v/s absorbance. The developed method is simple, sensitive, precise, rapid and cost effective for determination of Canagliflozin in bulk and pharmaceutical formulations and can be adopted in regular quality control test in Industries.

No. of Pages: 17 No. of Claims: 5



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