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GEOGRAPHICAL INDICATIONS

Application Details

APPLICATION NUMBER	202341008072
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	08/02/2023
APPLICANT NAME	1 . Dr.A.Venkateshwar Reddy 2 . Dr.Chinmaya Mahapatra 3 . Dr. Dillip Kumar Brahma 4 . Dr.Vurathi Sreenivasulu 5 . Dr.Bhaskar Jimidi 6 . Dr.V.Kiran Kumar 7 . Dr.Niranjan Panda 8 . Dr.Goje Arjun 9 . Dr. L. Rajesh Patro 10 . Mr.Satyabrata Jena
TITLE OF INVENTION	AN AI AND ML MODELS FOR CARDIOVASCULAR DISEASE DIAGNOSTICS, READMISSION, AND SURVIVAL PREDICTION
FIELD OF INVENTION	BIO-CHEMISTRY
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E-MAIL (UPDATED Online)	
PRIORITY DATE	
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PUBLICATION DATE (U/S 11A)	17/02/2023

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/09/2023

(21) Application No.202331063164 A

(43) Publication Date : 06/10/2023

(54) Title of the invention : DEVELOPMENT OF A NOVEL EXTRACTION AND PURIFICATION METHOD FOR ISOLATING ALZHEIMER'S DISEASE BIOMARKERS

(51) International classification :A61P0025280000, G01N0033680000, A61K0039000000, C12N0015100000, G01N0001400000
(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

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(57) Abstract :

The present invention relates to novel method for the isolation of Alzheimer's Disease (AD) biomarkers from biological samples. The method integrates a multi-step extraction process, highly specific binding reagents (including monoclonal antibodies and aptamers), advanced separation techniques, automation, and quantitative analysis. It is specifically designed to enhance sensitivity, specificity, and reproducibility in the isolation of AD biomarkers, exemplified by amyloid-beta peptides and tau proteins. The method facilitates precise quantification and monitoring of these biomarkers, offering potential applications in early AD diagnosis, disease progression tracking, and therapeutic target identification. Moreover, it accommodates various sample types, including cerebrospinal fluid, blood, and tissue samples, underscoring its versatility and significance in advancing AD research and patient care.

No. of Pages : 9 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/05/2023

(21) Application No.202341034185 A

(43) Publication Date : 16/06/2023

(54) Title of the invention : REPURPOSE OF FLUVASTATIN FOR TREATMENT OF OSTEOPOROSIS

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(51) International classification :A61K 314050, A61P 030600, A61P 191000, A61P 430000, C07D 092400
(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

(57) Abstract :

Preclinical evaluation of Fluvastatin for treatment of osteoporosis in ovariectomized rats. The albino Wistar female rats were divided into 4 groups of 6 rats in each and treated as follows. Group-I Sham operated receive vehicle (5% Tween 80); Group-II Ovariectomized control receives vehicle (5% Tween 80); Group-III Estrogen (0.0563mg/kg) in ovariectomized rats; Group-IV Fluvastatin (80mg/kg) in ovariectomized rats. At the end of 42 days, all the rats were deprived of food for whole night. On the next day, urine (0-24h) was collected, then the animals were anesthetized by Ketamine HCl (50mg/kg, ip) and blood samples were taken from common carotid artery loss, ash content, biomechanical, biochemical and histopathological observation were carried out for antiosteoporosis activity. The significant increase in BMD, Ash content and lumbar hardness were observed. In addition, increased levels of calcium and phosphorous is decreased in OVX group and increased levels in Fluvastatin treated animals. The histopathological results also confirm the protective effect of drug. The present findings strongly suggest that Fluvastatin possess the potent antiosteoporosis activity in ovariectomized rats and substantiates the ethnic use in treatment of postmenopausal osteoporosis.

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

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/04/2023

(21) Application No.202341030922 A

(43) Publication Date : 05/05/2023

(54) Title of the invention : METHOD FOR ESTIMATION OF FOSTEMSAVIR USING RP-UPLC IN PHARMACEUTICAL DOSAGE FORM AND USES THEREOF

(51) International classification :A61B 051600, A61K 450600, A61P 311200, C08G 770000, G01S 130000
(86) International Application No :PCT//
Filing Date :01/01/1900
(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

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(57) Abstract :

The present invention provides a simple, accurate and precise method for the estimation of Fostemsavir in pharmaceutical dosage form. The present invention relates a method for the estimation of Fostemsavir by RP-UPLC in bulk and tablet dosage forms. The method for estimation of Fostemsavir in pharmaceutical dosage form, comprising of dissolving Fostemsavir using Acetonitrile and Potassium dihydrogen phosphate as mobile phase in the ratio of 60:40 %v/v; running chromatogram through column C18, 2.1mm x 50mm, 1.8µm using mobile phase; optimizing conditions of column at flow rate 0.3ml/min, detecting wavelength at 230 nm, injecting volume 1 µL, run time 5 min; and column temperature at 30°C; running the sample and recording chromatogram from the chromatograph for estimation of Fostemsavir. The method for estimation of Fostemsavir, wherein the retention time 1.186 min and relative standard deviation 0.2, relative standard deviation of repeatability precision of Fostemsavir 0.7. The method for estimation of Fostemsavir, wherein the recovery 99.28% and assay 99.11%. The method for estimation of Fostemsavir, wherein the developed method is simple and economical and can be adopted in regular quality control test in industries.

No. of Pages : 18 No. of Claims : 6

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application : 30/08/2023

(21) Application No. 202341058292 A

(43) Publication Date : 08/09/2023

(54) Title of the Invention : UV SPECTROPHOTOMETRIC QUANTIFICATION OF CPM IN THE TABLET FORMULATION USING CHEMOMETRIC APPROACH

(51) International classification : A61K0031440200, G01N0021310000, A61K0009200000, G01N0021359000, G06F0017180000

(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

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(57) Abstract :

UV SPECTROPHOTOMETRIC QUANTIFICATION OF CPM IN THE TABLET FORMULATION USING CHEMOMETRIC APPROACH ABSTRACT In recent research, the Quality by Design (QbD) chemometric approach was applied to establish and validate a robust, precise, and consistent spectrophotometric method for the quantification of Chlorpheniramine Maleate (CPM) in tablet formulations. A fractional factorial design (FFD) was used for the initial parameter assessment. Subsequently, the selected variables were subjected to a central composite design (CCD) for further evaluation and optimization of the method. Various statistical tools were employed to evaluate the compatibility of the collected data. CPM displayed peak absorption at 262 nm when interfaced with HCl. Critical method variables identified were slitwidth and sampling interval, which were further analyzed using CCD. Strong linearity was observed for CPM in the range of 2-12 µg/mL with an R² value exceeding 0.9995. The technique showed high accuracy, with an average % recovery exceeding 100%. After refining, the method was validated following ICH guidelines. By employing QbD principles, the spectrophotometric method inherently ensured quality. The final method was determined to be robust and suitable for quantifying CPM in pharmaceutical formulations.

No. of Pages : 17 No. of Claims : 8

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Intellectual
Property
Office

Certificate of Registration for a UK Design

Design number: 6330016

Grant date: 11 December 2023

Registration date: 01 December 2023

This is to certify that,

in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of

Bhagyashri Raghunath Mogarkar, Mr. Abhishek Sharma, Mr. Rajesh Guntupalli,

Dharmasa Pawar, Dr. Nitin Lotan Shirole, Dr. Manpreet Kaur, Dr. Dilip Kumar

Tiwari, Dr. Asra Jabeen, Mr. Pavan Arun Chaudhari, Mr. Amit Suresh Rao

Sontakke

in respect of the application of such design to:

Ultra performance liquid chromatography apparatus for identification of
metabolites from crude extract

International Design Classification:
Version: 14-2023

Class: 24 MEDICAL AND LABORATORY EQUIPMENT

Subclass: 01 APPARATUS AND EQUIPMENT FOR DOCTORS, HOSPITALS
AND LABORATORIES

Version: 14-2023

Class: 24 MEDICAL AND LABORATORY EQUIPMENT

Subclass: 02 MEDICAL INSTRUMENTS, INSTRUMENTS AND TOOLS FOR
LABORATORY USE

Adam Williams

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Comptroller-General of Patents, Designs and Trade Marks
Intellectual Property Office

The attention of the Proprietor(s) is drawn to the important notes overleaf.

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ORIGINAL

प्रम सं/Serial No.: 147971



पेटेंट कार्यालय, भारत सरकार

The Patent Office, Government Of India

डिजाइन के पंजीकरण का प्रमाण पत्र

Certificate of Registration of Design

डिजाइन सं./ Design No.

373162-001

तारीख / Date

27/10/2022

पारस्परिकता तारीख / Reciprocity Date*

देश / Country

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो DISSOLUTION TEST APPARATUS से संबंधित है, का पंजीकरण, श्रेणी 24-02 में 1.Dr. Anu Vrat Sharma 2. Mr Vinayak Vasantrao Mukkawar के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

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डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अन्वये प्रवणनों के अनुसरण में।

In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

आवेदक की तिथि / Date of Issue

07/11/2023



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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application : 22/02/2023

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(43) Publication Date : 17/03/2023

(54) Title of the invention: RP-UPLC METHOD FOR ESTIMATION OF PAVIPRAVIR IN PHARMACEUTICAL DOSAGE FORM AND USES THEREOF

(51) International Classification: A61K 31/00, A61K 31/09, A61P 31/12, C12M 1/00
 (52) International Application No. PCT/IN 2023/0001
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 (57) International Publication No. NA
 (58) Patent of Additions: NA
 Application Number: NA
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(57) Abstract :

The present invention provides a simple, accurate and precise method for the estimation of Pavipravir in pharmaceutical dosage form. The present invention relates a method for the estimation of Pavipravir by RP-UPLC in bulk and tablet dosage form. The method for simultaneous estimation of Pavipravir in pharmaceutical dosage form, comprising of dissolving Pavipravir using acetonitrile and 0.1% Ortho-phosphoric acid in mobile phase in the ratio 1:10:90 v/v/v, running chromatogram through column C₁₈, 100mm x 2.1 mm, 1.5µm using mobile phase, optimizing conditions of column at flow rate 0.5 ml/min, column temperature 25°C, injection volume 20 µl, and column temperature at 30°C, running the sample and comparing chromatogram with the chromatogram for estimation of Pavipravir. The method for simultaneous estimation of Pavipravir, wherein the recovery ranges between 92% and 98% levels, R² value 0.99, provides 100% reproducibility and 100% inter-assay precision. LLOD 0.12 µg/ml and LLOQ 0.4 µg/ml. The developed method is specific for the estimation of Pavipravir in the bulk and pharmaceutical dosage form. The present RP-UPLC method has excellent sensitivity, precision and reproducibility.

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