(12) PATENT APPLICATION PUBLICATION

#### (19) INDIA

(22) Date of filing of Application :03/08/2023

#### (43) Publication Date : 01/09/2023

# (54) Title of the invention : BIOANALYTICAL METHOD DEVELOPMENT AND VALIDATION OF ANTI-DIABETIC DRUG USING LIQUID CHROMATOGRAPHY COUPLED WITH TANDEM MASS SPECTROSCOPY

<ul> <li>(51) International classification</li> <li>(86) International Application No Filing Date</li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application Number Filing Date</li> <li>(62) Divisional to Application Number Filing Date</li> </ul>	:G01N0030020000, G01N0030720000, G01N0033680000, G01N0030060000, G01N0030880000 :PCT// :01/01/1900 : NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)Dr. Dasari Vasavi devi</li> <li>Address of Applicant : Associate Professor, Department of Pharmaceutical Analysis, P. Rami Reddy Memorial College of Pharmacy, Prakruthi Nagar, Utukur, Kadapa-516003, Andhra Pradesh, India</li></ul>
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(57) Abstract :

Abstract BIOANALYTICAL METHOD DEVELOPMENT AND VALIDATION OF ANTI-DIABETIC DRUG BY USING LIQUID CHROMATOGRAPHY COUPLED WITH TANDEM MASS SPECTROSCOPY The present invention provides a method for quantization of Empagliflozin in a biological sample using LC-MS/MS, comprising of preparing Empagliflozin sample solution using 5mM Ammonium Acetate buffer with 0.1% Formic Acid and Acetonitrile as mobile phase in the ratio of 50:40 V/r; running chromatogram through column using mobile phase; optimizing conditions at flow rate 0.3900 mL/min, njecting volume 20µL by positive ion mode, run time 3 minutes; running the sample and determining quantization using atmospheric pressure electro spray ionization (ESI) tandem mass spectrometry in positive ion mode. The method, wherein the precursor to product ion transitions m/z451.52>71.32 for Empagliflozin and m/z267.3>226.8 for Nevirepine (Internal standard). the retention time of Empagliflozin 1.50 minutes and Nevirepine (Internal standard) 2.40 minutes; and biological sample is human plasma. The process for the preparation of plasma samples, comprising of collecting human blood samples in tubes containing dipotassium and Ethylene Diamine Tetra acetic Acid; centrifuging each tube at 8500 rpm and collecting the supernatant; adding acetonitrile to the supernatant and keeping it for 10 min for precipitating the plasma proteins and collecting the supernatant. The method for quantization of Empagliflozin, wherein the calibration curve is linear in the range of 2.0pg/mL to 979.9pg/mL and correlation coefficient (r) is 0.999 for Empagliflozin. The method for quantization of Empagliflozin, wherein the method is validated method of high degree of sensitivity, selectivity, reproducibility and high recovery and reliable, feasible, highly specific, precise accurate, rugged and robust analytical procedure and allows the analysis of large number of samples in a short period of time and useful for routine analysis of Empagliflozin.

No. of Pages : 20 No. of Claims : 10



ભારતસરકાર પેટેટ कार्यालय, सरकार Certificate of Registration of Design

डिजाइन स. / Design No. तारीख / Date

400589-001 24/11/2023

ATH

सत्यमेव जयते

पारस्परिकता तारीख / Reciprocity Date' देश / Country

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो SMART AND PORTABLE HAEMOGLOBINOMETER से संबंधित है, का पंजीकरण, श्रेणी 24-01 में 1. Prof. (Dr.) Keerti Singh 2. Dr. Neha Chauhan 3. Suraj Mandal 4. Dr. Sai Koteswar Sarma 5. Dr. Geetanjali Kaul 6.Dr. Nitesh Verma 7.Dr. Ashok Kumar Sharma 8.Surya Pratap Singh के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 24-01 in respect of the application of such design to SMART AND PORTABLE HAEMOGLOBINOMETER in the name of 1. Prof. (Dr.) Keerti Singh 2. Dr. Neha Chauhan 3. Suraj Mandal 4. Dr. Sai Koteswar Sarma 5. Dr. Geetanjali Kaul 6.Dr. Nitesh Verma 7.Dr. Ashok Kumar Sharma 8.Surya Pratap Singh.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रावधानों के अनुसरण में। In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

जारी करने की तिथि : 19/01/2024 Date of Issue

महानियंत्रक पेटेंट, डिजाइन और व्यापार चिह्न Controller General of Patents, Designs and Trade Marks

ORIGINAL

क्रम स/ Serial No. : 154091

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The reciprocity date (if any) which has been allowed and the name of the country. Copyright in the design will subsist for ten years from the date of Registration, and may under the terms of the Act and Rules, be extended for a further period of five years. This Certificate is not for use in legal proceedings or for obtaining registration abroad.



# OFFICIAL JOURNAL OF THE PATENT OFFICE

निर्गमन सं. 02/2024	शुक्रवार	दिनांकः 12/01/2024
<b>ISSUE NO. 02/2024</b>	FRIDAY	DATE: 12/01/2024

# पेटेंट कार्यालय का एक प्रकाशन PUBLICATION OF THE PATENT OFFICE

The Patent Office Journal No. 02/2024 Dated 12/01/2024

## **INTRODUCTION**

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01<sup>st</sup> January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

## ( PROF. (DR) UNNAT P. PANDIT) CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS

12<sup>th</sup> JANUARY, 2024

(12) PATENT APPLICATION PUBLICATION

### (19) INDIA

(22) Date of filing of Application :14/12/2023

(43) Publication Date : 12/01/2024

# (54) Title of the invention : ENHANCING CNS DRUG TRANSPORT THROUGH SURFACE-MODIFIED OLEUROPEIN NANOSTRUCTURED LIPID CARRIERS VIA NASAL DELIVERY

<ul> <li>(51) International classification</li> <li>(86) International Application No Filing Date</li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application Number Filing Date</li> <li>(62) Divisional to Application Number Filing Date</li> <li>Filing Date</li> </ul>	:A61K000900000, A61K0009510000, A61K0031704800, A61K0009160000, A61K0009107000 :NA :NA :NA : NA :NA :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)Dr. Ramesh Reddy Kudamala Address of Applicant :Associate Professor, Sri Padmavathi School of Pharmacy, Tiruchanoor, Tirupati, Andhra Pradesh, Pin Code: 517503</li> <li>2)Dr. Sucharitha Palagati 3)Dr. Jayasankar Reddy Veeram 4)Dr. Girish Chiruthanur Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor :</li> <li>1)Dr. Ramesh Reddy Kudamala Address of Applicant :Associate Professor, Sri Padmavathi School of Pharmacy, Tiruchanoor, Tirupati, Andhra Pradesh, Pin Code: 517503</li> <li>2)Dr. Sucharitha Palagati Address of Applicant :Associate Professor, Seven Hills College of Pharmacy, Venkatramapuram, Tirupati, Andhra Pradesh, Pin Code:517561</li></ul>
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### (57) Abstract :

The present invention relates to novel herbal molecule, Oleuropein (OLE), for potential treatment of meningitis, focusing on brain delivery through nasal administration. Employing a modified Melt-emulsification Ultrasonication method, we engineered Oleuropein-loaded Nanostructured Lipid Carriers (NLC) with surface modification using varying concentrations of chitosan. Characterization studies demonstrated optimal particulate features, with TEM and SEM images revealing spherical NLC particles. Ex-vivo permeation studies on goat nasal mucosa exhibited enhanced drug permeation with NLCs compared to the drug alone. Histo-pathological assessments confirmed safety, while in-vitro drug release studies showcased an initial rapid release followed by sustained release up to 24 hours. Intranasal administration demonstrated higher absolute bioavailability than intravenous, and chitosan-coated NLCs exhibited a significant increase in brain Cmax concentration. In summary, this approach mitigates challenges associated with the hydrophilic nature of OLE, offering a promising avenue for effective brain targeting through lipidic NLCs.

No. of Pages : 26 No. of Claims : 9



# OFFICIAL JOURNAL OF THE PATENT OFFICE

निर्गमन सं. 02/2024	शुक्रवार	दिनांकः 12/01/2024
<b>ISSUE NO. 02/2024</b>	FRIDAY	DATE: 12/01/2024

# पेटेंट कार्यालय का एक प्रकाशन PUBLICATION OF THE PATENT OFFICE

The Patent Office Journal No. 02/2024 Dated 12/01/2024

## **INTRODUCTION**

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01<sup>st</sup> January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

## ( PROF. (DR) UNNAT P. PANDIT) CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS

12<sup>th</sup> JANUARY, 2024

(12) PATENT APPLICATION PUBLICATION

### (19) INDIA

(22) Date of filing of Application :14/12/2023

(43) Publication Date : 12/01/2024

# (54) Title of the invention : GREEN EXTRACTION OF OLEUROPEIN FROM OLIVE LEAVES USING GLYCEROL AND EVALUATING ANTI-MENINGITIS POTENTIAL

<ul> <li>(51) International classification</li> <li>(86) International Application No Filing Date</li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application Number Filing Date</li> <li>(62) Divisional to Application Number Filing Date</li> </ul>	:A61K0031704800, A61K0036630000, A23L0033105000, C07H0017040000, C07H0001080000 :NA :NA :NA :NA :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)Dr. Ramesh Reddy Kudamala Address of Applicant :Associate Professor, Sri Padmavathi School of Pharmacy, Tiruchanoor, Tirupati, Andhra Pradesh, Pin Code: 517503</li></ul>

### (57) Abstract :

The present invention relates to the evaluation of glycerol as a bio-solvent for Oleuropein extraction from Olive leaves, employing a green extraction process incorporating hot blanching-assisted ultrasound maceration. Analysis utilizing UV, FT-IR, HPTLC, and HPLC demonstrated substantial Oleuropein content in the glycerol extract. The application of gravity chromatography resulted in the isolation of Oleuropein-rich fractions. In-vivo meningitis studies on albino Wistar rats showcased promising outcomes with Oleuropein concentrations of  $25\mu$ g/ml,  $34\mu$ g/ml,  $36\mu$ g/ml, and  $29\mu$ g/ml. The aqueous glycerol extract exhibited superior Oleuropein yield, affirming glycerol's effectiveness as a bio-solvent. Histopathological examination revealed initiated brain tissue regeneration in the treated group, highlighting glycerol's potential in Oleuropein extraction and its anti-meningitis activity in bacterial-induced animal models.

No. of Pages : 21 No. of Claims : 4

## Certificate of Registration for a UK Design

Intellectual Property Office

Design number: 6364225 Grant date: 15 May 2024 Registration date: 04 May 2024

### 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

Dr. Neeraj Bhandari, Dr. Shah Raj Ali, Miss. Megha Sadanand Gajale, Dr.

Fedelic Ashish Toppo, Dr. Mohammad Ashif Khan, Dr. Shadma Wahab, Dr.

Hima Saila Mukkudiahgari, Dr. Touseef Begum, Dr. Krunal Kishorkumar

Detholia, Mohd Vaseem Fateh

in respect of the application of such design to:

APPARATUS FOR INSTANT ISOLATION OF ACTIVE CONSTITUENTS FROM

NATURAL COMPOUNDS

International Design Classification: Version: 14-2023 Class: 24 MEDICAL AND LABORATORY EQUIPMENT Subclass: 01 APPARATUS AND EQUIPMENT FOR DOCTORS, HOSPITALS AND LABORATORIES



on Williams

Adam Williams 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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**Representation of Designs** 















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O ८७३७७३, बौद्धिक संपदा चा कार्यालय, भारत सरकार ता कुंकु அலுவலகம், இந்திய அரசு, حومت UAL انتلبک المَّن المَّلَي المَّالِي المَّالِي المَّالِي المَّالِي المَّالِي المَّلِي المَّالِي المَّالِي المَ INDIA مَنْ المَّالِي المَّالِي المَّالِي المَّالِي المَّالِي المَّالِي المَالِي المَالِي المَالِي المَالِي المَ INDIA مَنْ المَالِي ا المَالِي المَ المَالِي المَ المَالِي المَ

ATENTS I DESIGNS I RADE MARKS I GAN संपदी कार्यालय, भारत सरकार, Intelle सत्यमेव जयते SECORAMICAL INDICATIONS दुवन संपदी देपतर भारत सरकार, वोग्निक जञ्जान कार्यालय, जातर जेयकात, 2005 अठे ठठे ठठे ठठे वीधिक संपत्ती कार्यालय नुडार्यालय, ભारतसरडार पेटेंट कार्यालय, भारत सरकार का The Patent Office, Government Of India

Certificate of Registration of Design

ORIGINAL

क्रम सं/ Serial No. : 168892

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डिजाइन सं. / Design No.

तारीख / Date

जारी करने की तिथि

Date of Issue

10/05/2024

412042-001 30/03/2024

पारस्परिकता तारीख / Reciprocity Date\* देश / Country

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो MASS SPECTROPHOTOMETER DEVICE से संबंधित है, का पंजीकरण, श्रेणी 24-01 में 1.S Raja Shekhar 2. Dr Sreenivasa Charan Archakam 3.Dr Keerthisikha Palur 4.Dr. Selvaraja Elumalai 5.Venkata Lakshamana Saar Dantinapalli 6.Mylsamy Palanisamy 7.Shaik Khadar Yazdan 8.Sanjeeva Reddy Chinnakadoori के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

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डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रावधानों के अनुसरण में। In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

> महानियंत्रक पेटेंट, डिजाइन और व्यापार चिह्न Controller General of Patents, Designs and Trade Marks

Beere

of utso

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Office of the Controller General of Patents, Designs & Trade Marks Department for Promotion of Industry and Internal Trade Ministry of Commerce & Industry, Government of India

(http://ipindia.nic.in/index.htm)



(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202311067402
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	07/10/2023
APPLICANT NAME	<ol> <li>Dr. Neeraj Kant Sharma</li> <li>Dr.Anthati Sreenivasulu</li> <li>Dr.K.Muni Raja Lakshmi</li> <li>Mr. AKASH KOLEY</li> <li>Dr Balaji Pendakur</li> <li>Dr.Dharmasoth.RamaDevi</li> <li>Prof. K. Basavaiah</li> <li>Mr. Prashant Nayak</li> <li>Dr Manisha Bihani</li> <li>Dr. Sachin Tyagi</li> <li>Mr. Mennuru Nagendra Babu</li> <li>Mr. Mayandigari Guruvareddy</li> </ol>
TITLE OF INVENTION	METALLOPHARMACEUTICAL METAL COMPLEXES DEVELOPED FOR THE TREATMENT OF DIABETES MELLITUS BASED ON BIO-MEDICINAL INORGANIC CHEMISTRY
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	arpan260387@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	
PUBLICATION DATE (U/S 11A)	27/10/2023



Office of the Controller General of Patents, Designs & Trade Marks Department of Industrial Policy & Promotion, Ministry of Commerce & Industry, Government of India



Application Details	
APPLICATION NUMBER	202341040680
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	14/06/2023
APPLICANT NAME	<ol> <li>Dr Kiran Kumar Y</li> <li>Mannam Mounika</li> <li>Urooj Fatima Baig</li> <li>Simin Naaz Md Kaleem</li> <li>Farhat Fatima</li> <li>Dimple Pirgal</li> <li>Mr.Ismail Yusuf Shaikh</li> <li>Parmeshwar Sudhakar Mane</li> <li>Dr. Durga Prasad Thammisetty</li> <li>D. Dr. V. T. Iswariya</li> <li>Valikala Viswanath</li> <li>Dr Vankam Lokeswara Babu</li> </ol>
TITLE OF INVENTION	SOLID DISPERSION OF AN ANTIFUNGAL DRUG IN GEL FORMULATION FOR IMPROVING BIOAVAILABILITY
FIELD OF INVENTION	CHEMICAL



PROPERTY INDIA MERNED DESIGNATIONARE GATE संपदा कार्यालय, भारत सरकार, Intelle Arthright openy Office, Government of India, (वौद्धिक जन्म GEOGRAPHICAL INDIANONS देवन संपद्ध प्रतिरंभ भारत सरकार, (वौद्धिक जन्म्भन कार्यालय, जावज जनकार, 2005 अरु इक्षेश्ठ, 2005 उठ्ठाटर, बौधिक संपत्ती कॉयोलिय नुडार्थावय, ભारतसरडार, पेटेंट कार्यालय, भारत सरकार का The Patent Office, Government Of India

LATH

डिजाइन के पंजीकरण का प्रमाण पत्र 🖕 Certificate of Registration of Design

डिजाइन सं. / Design No.

तारीख / Date

जारी करने की तिथि :

Date of Issue

04/07/2024

414324-001 20/04/2024

पारस्परिकता तारीख / Reciprocity Date\* देश / Country

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो ARTIFICIAL INTELLIGENCE BASED DEVICE FOR CALCULATING ABSORBANCE OF DRUGS से संबंधित है, का पंजीकरण, श्रेणी 24-01 में 1.Mr. Aher Mohan Dattu 2. Mr. Shinde Subodh Samrat 3.Mr. Rajveer Singh Rajput 4.Dr. Hima Saila Mukkudiahgari 5.Mr. Arijit Mallick 6.Mr. Ayan Kumar Kar 7.Ms. Banhishikha Kar 8.Miss. Sohini Ganguly के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 24-01 in respect of the application of such design to ARTIFICIAL INTELLIGENCE BASED DEVICE FOR CALCULATING ABSORBANCE OF DRUGS in the name of 1.Mr. Aher Mohan Dattu 2. Mr. Shinde Subodh Samrat 3.Mr. Rajveer Singh Rajput 4.Dr. Hima Saila Mukkudiahgari 5.Mr. Arijit Mallick 6.Mr. Ayan Kumar Kar 7.Ms. Banhishikha Kar 8.Miss. Sohini Ganguly.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रावधानों के अनुसरण में। In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

> महानियंत्रक पेटेंट, डिजाइन और व्यापार चिह्न Controller General of Patents, Designs and Trade Marks

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क्रम सं/ Serial No. : 173806

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