

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

<p>(51) International classification :A61P0025280000, G01N0033680000, A61K0039000000, C12N0015100000, G01N0001400000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Priyanka Chakraborty Address of Applicant :Associate Professor, BCDA College of Pharmacy & Technology, 78/1, Jessore Road (South), Hridaypur, Barasat, Kolkata, West Bengal - 700127 -----</p> <p>2)Prof. (Dr.) Chowdhury Mobaswar Hossain</p> <p>3)Ms. Dishari Dutta</p> <p>4)Ms. Faheemah Hossain</p> <p>5)Mr. Nirmalya Khan</p> <p>6)Ms. Reshmi Mukherjee</p> <p>7)Mr. Pranjal Das</p> <p>8)Mr. Sibasish Dey</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Priyanka Chakraborty Address of Applicant :Associate Professor, BCDA College of Pharmacy & Technology, 78/1, Jessore Road (South), Hridaypur, Barasat, Kolkata, West Bengal - 700127 -----</p> <p>2)Prof. (Dr.) Chowdhury Mobaswar Hossain Address of Applicant :Professor, Department of Pharmaceutical Technology, Maulana Abul Kalam Azad University of Technology, Simhat, Haringhata, Nadia, West Bengal -741249 -----</p> <p>3)Ms. Dishari Dutta Address of Applicant :Assistant Professor, Bengal School of Technology (A College of Pharmacy), Sugandha, Near Chuchura Railway Station, Hooghly, Kolkata, West Bengal - 712102 -----</p> <p>4)Ms. Faheemah Hossain Address of Applicant :Assistant Professor, Bharat School of Pharmacy, Mangalpally (V), Ibrahimpatnam (M), Rangareddy, Hyderabad, Telangana - 501510 -----</p> <p>5)Mr. Nirmalya Khan Address of Applicant :Assistant Professor, Tarifa Memorial Institute of Pharmacy, Choa, Hariharpara, Murshidabad, Berhampore West Bengal - 742166 -----</p> <p>6)Ms. Reshmi Mukherjee Address of Applicant :Assistant Professor (Pharmaceutical Chemistry), Bengal College of Pharmaceutical Technology, Ward No. 8, Cinema Hall By Pass Road, Notunpally, Dubrajpur, West Bengal - 731123 -----</p> <p>7)Mr. Pranjal Das Address of Applicant :Assistant Professor, Gitanjali College of Pharmacy, Kantagoriya, Lohapur, Nalhati, Birbhum, West Bengal - 731237 -----</p> <p>8)Mr. Sibasish Dey Address of Applicant :Assistant Professor, Global College of Pharmaceutical Technology, Palpara More, Krishnanagar, Nadia, West Bengal - 741102 -----</p>
---	---

(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