

(54) Title of the invention : RP-HPLC METHOD DEVELOPMENT AND VALIDATION OF AN ANTI-ALZHEIMER DRUG: RIVASTIGMINE TARTRATE

<p>(51) International classification :G01N0030060000, G01N0030020000, G01N0030860000, G01N0030740000, A61K0031270000</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 :  <b>1)MRS. DEEPSHI ARORA</b>  Address of Applicant :M.M. COLLEGE OF PHARMACY, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA-AMBALA, HARYANA 133207, INDIA -----  <b>2)DR. MANISH KUMAR</b>  <b>3)DR. ABHISHEK TIWARI</b>  <b>4)DR. VARSHA TIWARI</b>  <b>5)DR. SHAILENDRA BHATT</b>  <b>6)DR. NAVNEET VERMA</b>  <b>7)DR. VIPIN SAINI</b>  <b>8)DR. JAMULA SRUTI</b>  <b>9)DR. BISWA MOHAN SAHOO</b>  <b>10)DR. SUNIL KUMAR</b>  <b>11)DR. YUGAM TANEJA</b>  Name of Applicant : NA  Address of Applicant : NA</p> <p>(72)Name of Inventor :  <b>1)MRS. DEEPSHI ARORA</b>  Address of Applicant :M.M. COLLEGE OF PHARMACY, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA-AMBALA, HARYANA 133207, INDIA -----  <b>2)DR. MANISH KUMAR</b>  Address of Applicant :M.M. COLLEGE OF PHARMACY, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA-AMBALA, HARYANA-133207, INDIA -----  <b>3)DR. ABHISHEK TIWARI</b>  Address of Applicant :FACULTY OF PHARMACY, IFTM UNIVERSITY, LODHIPUR RAJPUT, MORADABAD, U.P. 244102 -----  <b>4)DR. VARSHA TIWARI</b>  Address of Applicant :FACULTY OF PHARMACY, IFTM UNIVERSITY, LODHIPUR RAJPUT, MORADABAD, U.P. 244102 -----  <b>5)DR. SHAILENDRA BHATT</b>  Address of Applicant :DEPARTMENT OF PHARMACY, SCHOOL OF MEDICAL AND ALLIED SCIENCES, G.D. GOENKA UNIVERSITY, GURUGRAM, HARYANA-122103 INDIA -----  <b>6)DR. NAVNEET VERMA</b>  Address of Applicant :FACULTY OF PHARMACY, IFTM UNIVERSITY, LODHIPUR RAJPUT, MORADABAD, U.P. 244102 -----  <b>7)DR. VIPIN SAINI</b>  Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA-AMBALA, HARYANA-133207, INDIA -----  <b>8)DR. JAMULA SRUTI</b>  Address of Applicant :ROLAND INSTITUTE OF PHARMACEUTICAL SCIENCES, BERHAMPUR, ODISHA, INDIA -----  <b>9)DR. BISWA MOHAN SAHOO</b>  Address of Applicant :ROLAND INSTITUTE OF PHARMACEUTICAL SCIENCES, BERHAMPUR, ODISHA, INDIA -----  <b>10)DR. SUNIL KUMAR</b>  Address of Applicant :DEPARTMENT OF BIOTECHNOLOGY, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA-AMBALA, HARYANA-133207, INDIA -----  <b>11)DR. YUGAM TANEJA</b>  Address of Applicant :ZEON LIFESCIENCES PVT.LTD, PAONTA SAHIB, HIMACHAL PRADESH-173025 INDIA -----</p>
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(57) Abstract :  
The present paper describes a validated RP-HPLC Infinity LC equipped with UV detector method to quantify RT in various lipid particulate delivery systems. Chromatographic conditions followed for achieving separation in the study included Chromosil C-18 column (250×4.6mm,5µm in particle size) at a suitable temperature . The mobile phase was composed of (Methanol:0.1M ammonium acetate buffer) for achieving a high resolution peak of Rivastigmine Tartrate with 1 ml/min flow rate. The critical parameters were monitored at 219 nm and detected using infinity LC-equipped with UV detector and the data was analysed using anachrome software. The retention time was found to be 3.146 min. Also, the proposed method was validated as per ICH Q2(R1) guidelines and was found to be accurate, fast, reproducible and prudent for the quantification of Rivastigmine Tartrate in various dosage forms. The method was found to be linear in the selected range of 5-25 µg/ml with R2 value of 0.9975, accurate with 99.4±1.12%. The % RSD of less than 2% for inter day -intra day precision justifies the closeness of the theoretical and experimental values while its LOD and LOQ values were found to be 0.26µg/mL and 0.78µg/mL respectively.

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