

(54) Title of the invention : CURCUMIN COMPOSITION WITH ENHANCED BIOAVAILABILITY, ANTI-DIABETIC, ANTI-CANCER ACTIVITY

<p>(51) International classification :A61K0036670000, A61K0031120000, A23L0033105000, A61P0035000000, A61P0039060000</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)Mohd Yusuf Address of Applicant :Department of Natural and Applied Sciences, School of Technology, The Glocal University, Saharanpur, Uttar Pradesh, India- 247121 -----</p> <p>2)Prof. (Dr.) Satish Kumar Sharma</p> <p>3)Sonam Khan</p> <p>4)Dr. Paul Richards Mooni</p> <p>5)Subham Biswal</p> <p>6)Shruti Singh</p> <p>7)Dr/Bgen Adrien R Quidlat</p> <p>8)Dr Shilpi Singh</p> <p>9)Dr Pankaj Kumar Singh</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Mohd Yusuf Address of Applicant :Department of Natural and Applied Sciences, School of Technology, The Glocal University, Saharanpur, Uttar Pradesh, India- 247121 -----</p> <p>2)Prof. (Dr.) Satish Kumar Sharma Address of Applicant :Professor & Dean, Glocal School of Pharmacy; Pro Vice Chancellor, The Glocal University, Mirza Pur Pole, Saharanpur, Uttar Pradesh- 247121 -----</p> <p>3)Sonam Khan Address of Applicant :35 anshik gali near post office. Kaulagarh. Dehradun, Uttarakhand, India. -----</p> <p>4)Dr. Paul Richards Mooni Address of Applicant :Professor Aditya Bangalore Institute of Pharmacy education and research Yelahanka, Bangalore. -----</p> <p>5)Subham Biswal Address of Applicant :Student DOCTORATE OF MEDICINE 3rd Year UNIVERSITY OF PERPETUAL HELP SYSTEM DALTA , Phillipines , PIN - 1700 -----</p> <p>6)Shruti Singh Address of Applicant :Student DOCTORATE OF MEDICINE UNIVERSITY OF PERPETUAL HELP SYSTEM DALTA , Phillipines , PIN - 1700 -----</p> <p>7)Dr/Bgen Adrien R Quidlat Address of Applicant :Executive Medical Director - Orthopedic Surgeon UNIVERSITY OF PERPETUAL HELP SYSTEM DALTA , Phillipines , PIN - 1700 -----</p> <p>8)Dr Shilpi Singh Address of Applicant :Associate Professor Management Noida International University U. P. India- 203201 -----</p> <p>9)Dr Pankaj Kumar Singh Address of Applicant :Professor & Director R D Engineering College -Ghaziabad , U P ,India - 201205 -----</p> <p>10)Dr. Ravinder Singh Mann Address of Applicant :VPO Khojala Tehsil Batala Distt Gurdaspur Gurdaspur -----</p> <p>11)Shipra Kanwar Address of Applicant :Dewalchor Kham Haldwani, Manpur Paschim, Nanital, Uttarakhand- 263139. Nainital -----</p>
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(57) Abstract :

A curcumin composition with enhanced bioavailability, anti-diabetic, anti-cancer activity, comprising: i) curcumin in the range of 35 - 45 %; ii) curcumin derivative in the range of 35 - 45 %; iii) green tea in the range of 5 - 10 %; iv) extract of soya bean in the range of 5 - 10 %; and v) long pepper in the range of 5 - 10%. A method for preparing the composition comprises of following steps, i) extracting the curcumin and derivatives from plant material with dichloromethane , followed by evaporation in a vacuum to obtain dichloromethane extract; ii) isolating the dichloromethane extract using silica gel chromatography, subsequently eluted from a solvent to obtain curcumin extract; and iii) mixing the curcumin extract with the derivatives, followed by addition of the green tea, extract of soya bean and long pepper to obtain composition.

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