

(54) Title of the invention : PICEATANNOL-BASED FORMULATION FOR NEUROBEHAVIORAL DISORDERS

<div>(51) International classification :A61P0025000000, A61P0025220000, A61P0025280000, A61P0025240000, A61P0029000000</div> <div>(86) International Application No :NA</div> <div> Filing Date :NA</div> <div>(87) International Publication No :NA</div> <div>(61) Patent of Addition to Application Number :NA</div> <div> Filing Date :NA</div> <div>(62) Divisional to Application Number :NA</div> <div> Filing Date :NA</div>		<div>(71)Name of Applicant : 1)Chitkara University Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura ----- 2)Chitkara Innovation Incubator Foundation Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Amarjot Kaur Address of Applicant :Chitkara College of Pharmacy, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura ----- 2)Parneet Address of Applicant :Chitkara College of Pharmacy, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura ----- 3)Amit Kumar Address of Applicant :Chitkara College of Pharmacy, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura ----- 4)Pragati Silakari Address of Applicant :Chitkara College of Pharmacy, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura ----- 5)Ojashvi Sharma Address of Applicant :Chitkara College of Pharmacy, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura ----- 6)Thakur Gurjeet Singh Address of Applicant :Chitkara College of Pharmacy, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----</div>
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(57) Abstract :
An oral formulation has been developed to address neurobehavioral alterations caused by prolonged exposure to chronic unpredictable stress. This formulation includes Piceatannol, a naturally occurring polyphenol known for its antioxidant, anti-aging, and anti-inflammatory properties, and a process that enhances its therapeutic potential. The formulation provides neuroprotective effects by targeting various neurological and behavioral aspects, such as rescuing mitochondrial biogenesis, inhibiting oxidative stress-induced autophagy, mitigating neuroinflammation and neurodegeneration, and improving anxiety, depression, and memory dysfunction. Additionally, the formulation may include pharmaceutically acceptable excipients and is more effective in treating stress-related neurobehavioral disorders compared to conventional treatments. Reference Fig 1

No. of Pages : 15 No. of Claims : 10