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(57) Abstract :

The present invention relates to a novel polyherbal formulation (PHF) with potent neuroprotective and antioxidant properties, designed for the management of neurodegenerative disorders. The formulation comprises extracts of Withania somnifera, Emblica officinalis, Bacopa monnieri, and Mucuna pruriens, processed to ensure optimal phenolic and flavonoid content, contributing to its therapeutic efficacy. The PHF demonstrated significant antioxidant activity, with maximum free radical scavenging efficiency of 92.43% at 100 µg/ml concentration, surpassing standard ascorbic acid in lower concentrations. Additionally, phytochemical screening confirmed the presence of alkaloids, glycosides, tannins, flavonoids, amino acids, carbohydrates, and steroids, contributing to its neuroprotective potential. The formulation offers a promising natural approach for combating oxidative stress and preventing neuronal damage, providing a beneficial alternative for neuroprotection and the management of neurodegenerative conditions.

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