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(57) Abstract :
A novel composition for treating Alzheimer's disease is presented, featuring a Bacopa Monnieri extract formulation with 50% to 90% bacosides. This formulation is designed to reduce oxidative stress, inhibit acetylcholinesterase, modulate inflammation, and act as a potent antioxidant. The composition is delivered via a transdermal system that includes a silicone-based adhesive or acrylate polymer for skin adhesion, dimethyl sulfoxide or oleic acid as a permeation enhancer, and a polyurethane film for structural support. Additionally, it incorporates an ethylene vinyl acetate copolymer film to regulate release, a siliconized polyester film for protection, propylene glycol as a plasticizer, and tocopherol or ascorbic acid as a stabilizer. This innovative approach aims to provide neuroprotection, enhance cognitive function, and reduce neuroinflammation and oxidative stress in subjects with Alzheimer's disease. Reference fig 1

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