

पेटेंट कार्यालय  
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PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : “EFAVERINZ AND RITONAVIR LOADED PAMAM DENDRIMER FOR TARGETING HIV VIRAL RESERVOIRS”

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(57) Abstract :

The present invention is related to the anti-HIV drug Efavirenz (EFV) combined with a booster dose of Ritonavir (RTV) loaded mannosylated Polyamidoamine (PAMAM) G2 dendrimers to enhance the bioavailability and therapeutic efficacy. EFV with a booster dose of RTV loaded into mannosylated PAMAM G2 is delivers an optimum and sustained release of EFV into viral reservoir tissue to target the virus harbors by reducing the dose and side effects. In the present invention, the role of dendrimer effectively diffuses in various cellular and tissue compartments where the virus harbor is a potential way to completely cure HIV-infected patients.

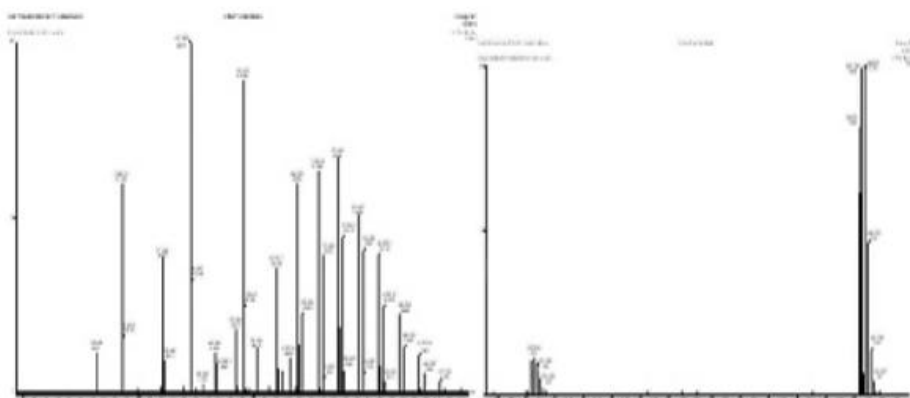


Fig 1: ESI mass spectra of PAMAM G2

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