(21) Application No.202441042716 A

(43) Publication Date: 14/06/2024

(19) INDIA

(22) Date of filing of Application :01/06/2024

(54) Title of the invention: A METHOD OF GREEN SYNTHESIS OF ZWITTERIONIC POLYMERIC NANOPARTICLES

(57) Abstract:

A method (100) of green synthesis of Zwitterionic Polymeric Nanoparticles is disclosed. The method (100) includes taking V-50 as an initiator. The method (100) includes taking MBAAm (1.0 g, 6.48 mmol), SBMA (0.2 g, 0.71 mmol), and the V-50 (0.02 g, 0.073 mmol) in a single neck Round Bottom Flask (RBF). The method further (100) includes adding a predefined amount of solvent to the RBF to obtain a reaction mixture, purging the reaction mixture with N2 for a first predefined time, heating the purged reaction mixture under nitrogen atmosphere using distillation precipitation method (DPP) after attaching a 24?19 connector for a second predefined time at first predefined temperature to obtain a product, centrifuging and washing the product with a solvent, and drying the washed product at a second predefined temperature for a third predefined time to obtain the green synthesised Zwitterionic Polymeric Nanoparticles

No. of Pages: 16 No. of Claims: 7