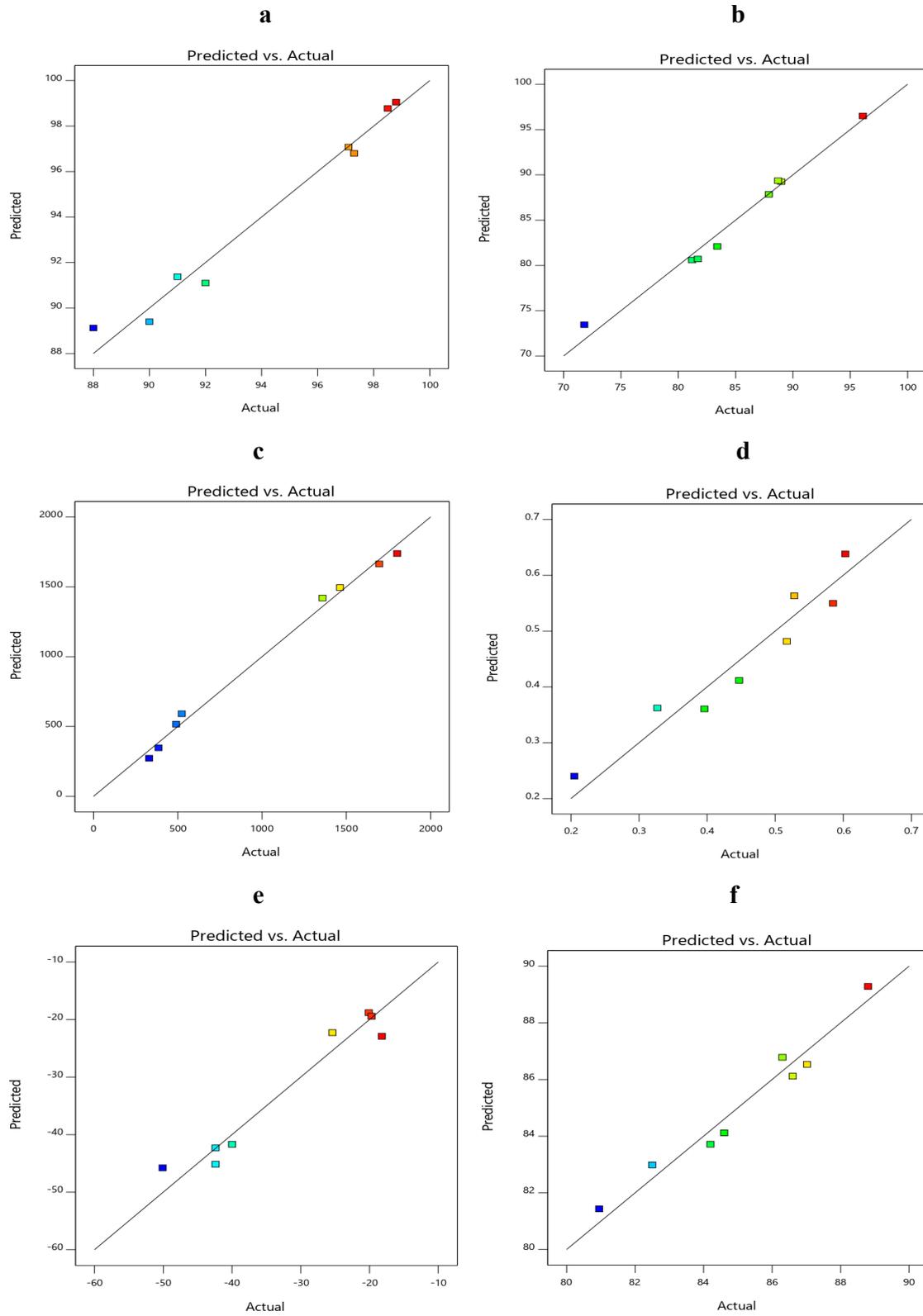
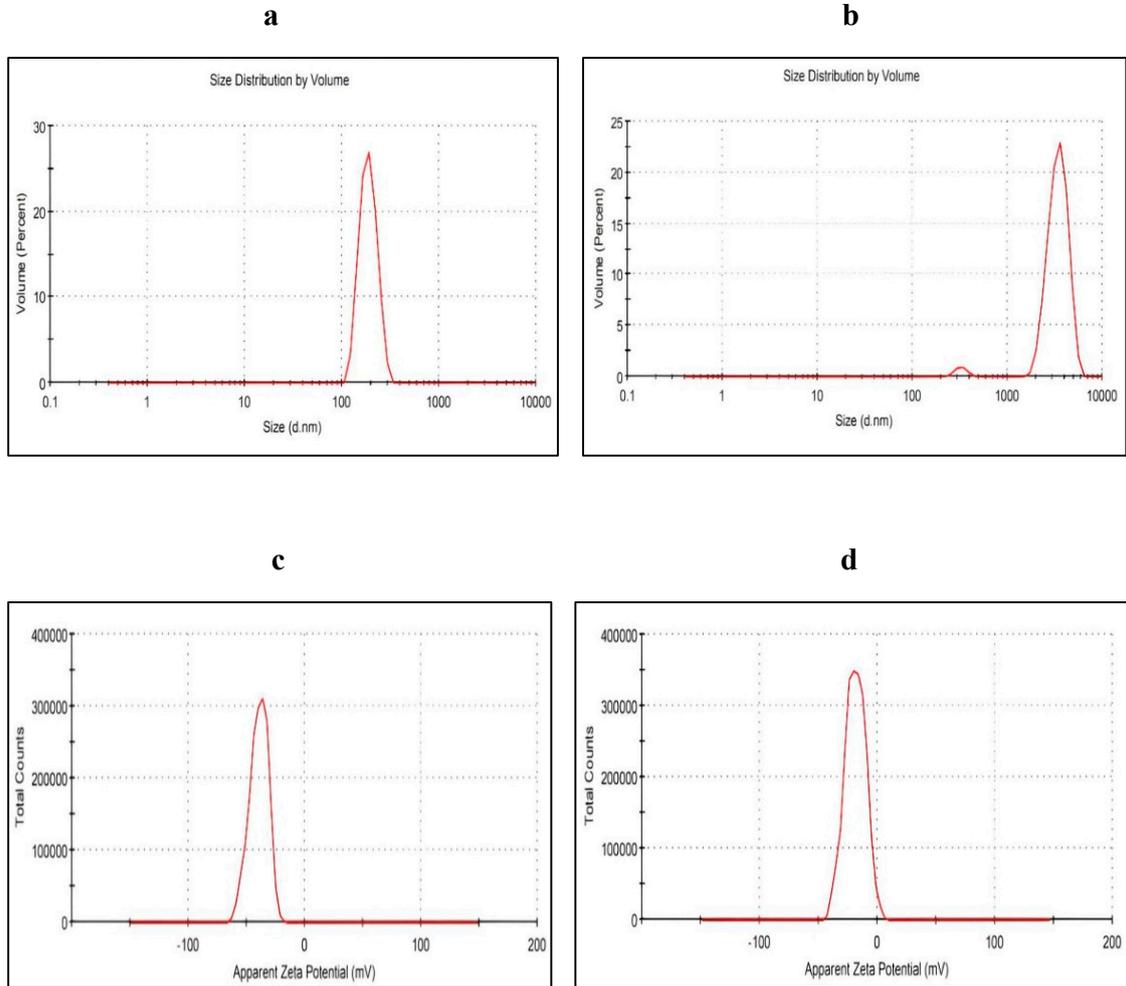


**Figure S1.** Linear correlation plots between actual and predicted values for (a)  $Y_1$  response, (b)  $Y_2$  response, (c)  $Y_3$  response, (d)  $Y_4$  response, (e)  $Y_5$  response, (f)  $Y_6$  response.



**Figure S2.** PS and ZP of IVM-loaded PLs formulations. **(a)** PS of SPC based IVM-Loaded PLs, **(b)** PS of DPPC based IVM-Loaded PLs, **(c)** ZP of SPC based IVM-Loaded PLs, **(d)** ZP of DPPC based IVM-Loaded PLs.



**Figure S3.** In-vitro drug release profiles of IVM-loaded PLs formulations (n=3±SD).

