PHARMACEUTICAL FORMULATIONS FOR SUBCUTANEOUS ADMINISTRATION OF FUROSEMIDE

Abstract

The present teachings relate to liquid pharmaceutical formulations of furosemide, where the pharmaceutical formulations include a molar excess of tris(hydroxymethyl)aminomethane to furosemide, have a pH in the range of 7 to 8.5, and a concentration of tris(hydroxymethyl)aminomethane greater than or equal to about 50 mM. The present teachings can improve the stability of liquid pharmaceutical formulations including furosemide and the suitability of such pharmaceutical formulations for subcutaneous administration or delivery.

Fig 1.