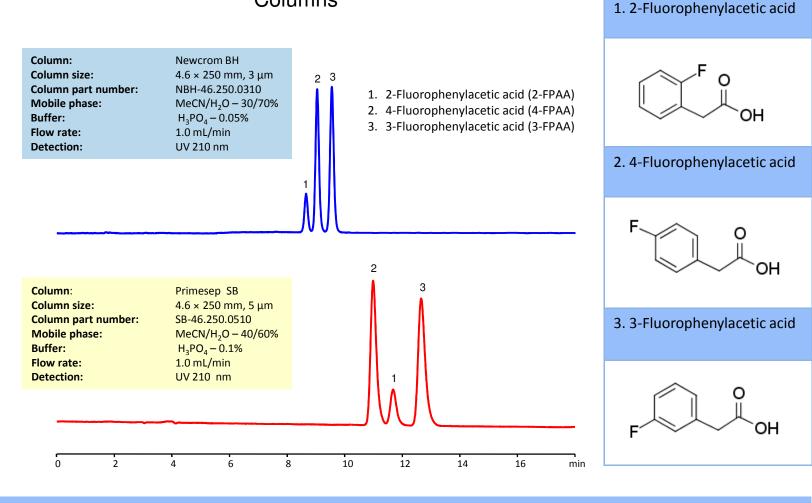


HPLC Separation of 2-Fluorophenylacetic acid, 4-Fluorophenylacetic acid, 3-Fluorophenylacetic acid on Sielc Columns



Application Comments

The separation of structural isomers often is a challenging task in HPLC. Even more challenging is to change their elution order. Occasionally when we work with customer samples we see some unusual selectivity of mixed-mode columns. In these examples two anion-exchange –RP mixed-mode columns produced a different selectivity toward isomers of fluorophenylacetic acids.

These two columns are different in position of embedded basic functional group in relation to the silica gel surface. Newcrom BH has a ligand with terminal basic functional groups while Primesep SB has an embedded basic functional group close to the silica surface. The silica surface probably plays a role in this selectivity difference.

SIELC portfolio has several types of cation-RP and anion-RP mixed-mode columns. This example justifies their existence as a tool for resolving sometimes very challenging separations.

If you have a hard time solving your separation problem, send us a request and we will be glad to work it out. Service is free and confidential if required.