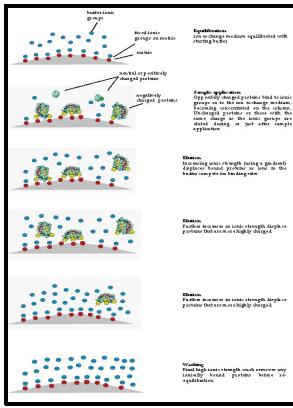


Practical Ion Chromatography

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Practical aspects of suppressed ion chromatography for cations in human serum

Gravity pulls the mobile phase down through the stationary phase and the components in the mixture start to move through the column at different rates.

Practical aspects of suppressed ion chromatography for cations in human serum

How Does Ion Chromatography Work? Your sketch should have all compounds coming off the column at shorter retention times and over a narrower range, say peak 1 at 1 min, peak 8 at 5 min, others distributed in between. I ASKED THEM TO GIVE YOU SOMETHING TO THINK ABOUT, BUT EVEN I HAVE TO THINK HARD ABOUT THEM AND THE ANSWERS ARE NOT OBVIOUS.

Ion Exchange chromatography

Practical aspects of suppressed ion chromatography for cations in human serum

Starting on the left, mark the identity of the ion underneath each spot with a pencil; then spot each known ion carefully onto the line. Mini columns were filled with DEAE-Sephadex A-50 and further eluted with tris- buffer sodium chloride at various concentrations each concentration was chosen advantageously to manipulate elution.

Ion Exchange chromatography

The amino acids that have negatively charged side chains at pH 7 pH of water are glutamate and aspartate. Measure the distance each spot moved, D, with a ruler. If the column is not properly equilibrated the desired molecule may not bind strongly to the column.

Ion chromatography

Use these values to calculate the Rf for each ion.

Practical aspects of suppressed ion chromatography for cations in human serum

Measure to the center of each spot. The spots should be between 5—8 mm in diameter. Hence this method can be used to separate and purify these charged compounds.

A Practical Guide To Selecting Ion Chromatography Systems

The column flow velocity is measured as mL per minute. Column Technology It determines the selectivity of the IC system

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