

HPLC Strong Cation Exchange

Strong Cation exchange chromatography has been used as a good separation technique that can be joined with reverse phase chromatography, which is regularly utilized in peptide mass spectroscopy. Although it is important as the second component of such two dimensional separation methods, its utilization goes beyond powerful fractionation of complex peptide mixtures. Here, the stationary bed is ionically negative while the sample ions are positive. The samples taken are exclusively ionizable samples. The stronger the positive charge of the sample, stronger is the attraction towards the negative and longer the elution time. The mobile phase is aqueous and the elution time is affected by pH and ionic strength which are usually high. Capacity is based on number of charges (+), and the capacity increases with the increase in the acidity. The strong cation exchange chromatography has been mainly utilized for the enhancement of these two Post transcriptional modifications, but it might also be useful for high throughput scrutiny of other changes that alter the net charge of a peptide.

Issued by:

NTHRYS OPC PVT LTD

Ph: +91 - 8977624748

Web: www.nthrys.com

Email: smo@nthrys.com

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