

Simple Sugars Methods using Triethylamine TEA in Aqueous Normal Phase ANP Methods - Tips & Suggestions

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Triethylamine TEA is an organic base and sometimes used in some HPLC methods to adjust the mobile phase pH.

Get improved peak shape and selectivity when separating **simple sugars** with TEA and Cogent TYPE-C™ columns as long as the concentration of TEA does not exceed 0.1%. This improved peak shape is thought to be due at least partly to an ion-pairing mechanism of the TEA on the surface of the stationary phase material.

Alternatively, ammonium acetate, a near-neutral pH is obtained with this additive, so it is a popular choice for keeping most organic acids ionized, which is generally preferred for ANP methods. In addition, it is LC-MS compatible, in contrast to a near neutral pH phosphate buffer.

NOTE: Our research has indicated that TEA may be difficult to remove from columns once introduced therefore if TEA is to be used with a column, the column should be dedicated to methods with TEA. The same research has shown though that TEA can be used to obtain advantageous changes in chromatography in under certain conditions.



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