

What is the maximum salt concentration to use with Cogent TYPE-C HPLC columns with HPLC or LCMS – FAQ

In other retention modes such as ion exchange or HILIC, a high salt concentration may be required. However, these high levels can be detrimental to various aspects of an analysis. In LC-MS, high salt can suppress MS ionization. Even if the mobile doesn't use high salt concentrations, they can still elute off a column that had previously been used under such conditions.

With Cogent TYPE-C™ silica HPLC columns in **Aqueous Normal Phase** (ANP) mode, these high levels are not required; generally no more than 10mM should be used in any method, whether in LC-MS or regular HPLC. The salts can permanently alter the stationary phase behavior at these high levels and may be virtually impossible to completely remove, even with extensive washing protocols.



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