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## How does ammonium fluoride affect chromatography using Cogent TYPE-C HPLC columns?

### Ammonium fluoride as mobile phase additive functions beneficially in several ways in a for LCMS:

- As a buffer (*i.e.* pH control)
- Improvement of peak shapes
- Improvement of sensitivity in MS for certain compounds

For further reading, please refer to the following third-party journal article reference:

J. Pesek, M. Matyska, "Ammonium fluoride as a mobile phase additive in aqueous normal phase chromatography," J. Chromatogr. A. 1401, 2015, 69-74.

**NOTE:** care should be taken when using ammonium fluoride because it is corrosive to glass (Teflon bottles are preferred) and using a concentration in excess of 1 mM may permanently damage HPLC columns. However, it has been reported that Cogent TYPE-C™ Silica columns last much longer than ordinary columns but ammonium fluoride may somewhat decrease the column lifetime.

