

## Purge metals from HPLC system using EDTA or medronic acid – How To $% \left( {{\left[ {{{\rm{TO}}_{\rm{TO}}} \right]_{\rm{TO}}}} \right)$

## In LCMS, metal ions can be responsible for distorted analyte peak shapes via chelating or other interactions.

If you determine that this is the cause of a peak issue, here is what you can do to eliminate metals from the system and see that they don't cause further problems.

1. Add 5-10 micro Molar EDTA or medronic acid to both A and B solvents of the mobile phase. Be sure that the concentration is micro Molar NOT milli Molar or there will be significant Issues.

- 2. Purge the system thoroughly with the new mobile phases.
- 3. Add 100 micro Molar to the sample.

4. Before Injecting the sample, inject a plug of 100 micro Molar EDTA or medronic acid onto the column. This will remove any metals that may be chelated at the stationary phase surface.



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