

Add 10 micro molar EDTA or medronic acid to mobile phase for better peak shapes - Tips & Suggestions

Tips & Suggestions

Improve Peak Shapes in LC-MS: Add 10 μ M EDTA or Medronic Acid to the Mobile Phase

Poor peak shapes—especially for **polyprotic acids** and **nucleotides**—can often be traced back to **metal contamination**. These metals may leach from:

- Glass solvent bottles
- Autosampler vials
- Internal components of the LC-MS system

The extent of this issue can vary significantly between instruments, so it's important to **identify the specific source** of peak distortion in your setup.

Suggested Solution

To mitigate metal-related peak tailing or distortion, consider adding **10 μ M EDTA or medronic acid** to your mobile phase. These chelating agents can bind trace metals, improving peak symmetry and reproducibility.

Note: Always verify compatibility with your method and instrument before modifying mobile phase composition.

