
Fosetyl-aluminum HPLC Analysis - Tips & Suggestions

Reversed Phase & Aqueous Normal Phase Method Tips:

You can use the [Cogent Bidentate C18™](#) column in reversed phase (RP) with a high water content method. According to a 2014 third-party research article, if the analysis is done by reversed phase an ion pair agent is recommended to increase retention and reduce peak tailing. Here, 8 mM sodium sulfate was used in a pH 4.3 phosphate **buffer** mobile phase. Cogent™ columns work well with ion pair agents and will not be degraded. Also, the Bidentate C18™ is more hydrophobic than other columns on the market due to the Cogent TYPE-C Silica™ surface. Therefore you may obtain higher retention for this highly polar **analyte**.

As for detection methods, it was reported that direct detection with a UV detector can be achieved by the addition of a KOH solution to the sample. In this case, a narrow absorbance **band** was observed with λ_{max} at 200 nm. Indirect detection could also be used; in this case, you add a UV absorbing compound in the mobile phase and obtain a negative peak.

NOTE: If you try the method by aqueous normal phase (ANP), we suggest the [Cogent Diamond Hydride™](#) column. You will want to omit the ion pair agent in this case and use a high percent of acetonitrile in the mobile phase to obtain retention.

