

What is the purpose of using isopropanol IPA as part of the mobile phase solvent in ANP methods – FAQ

Some of our Cogent TYPE-C HPLC column application notes that feature **Aqueous Normal Phase ANP** use 50% isopropanol (*IPA*) as part of the aqueous component of the mobile phase. The main reason for this use is to help keep the column free of undesired adsorbed contaminants from a sample or sample matrix.

Contaminants can change the retention behavior of your **analyte** in any HPLC method and can also slowly elute off the column as carryover peaks in subsequent runs or as baseline noise and drift. We have found IPA (*or methanol can be used*) to be good at washing these contaminants off the column during the final part of an ANP gradient run. When performing HPLC or LCMS, adding IPA to the A (*aqueous*) solvent component will have little effect on the chromatography compared to using only aqueous-containing solvents, so it is something you should consider adding in the method before it has been fully developed.



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