

If an analyte is only soluble at basic pH can you use a basic mobile phase for my method - FAQ

Use of a strongly basic mobile phase is usually not recommended for any silica based HPLC column

because the underlying silica of the stationary phase is prone to dissolution at pH above 8 when the solution has a strong ionic strength. This may seem problematic for some analytes that you want to use in **Aqueous Normal Phase ANP** or Reversed Phase HPLC.

Folic acid for example, is not appreciably soluble in neutral to acidic conditions.

However, you can use a basic diluent for the sample only and still use a mild or acidic pH mobile phase ANP. The small volume of the sample plug will not cause significant dissolution of the stationary phase and will allow for accurate quantitation of the **analyte**.