5. Baseline Noise in Gradient Elution

In gradient analysis, incomplete mixing of mobile phases or impurities in water of mobile phase can cause baseline noise. In the former case, it can be improved by using a proper mixer before injector (Baseline $1\rightarrow2$). In the latter case, it can be improved by using a pre-column. Impurities in water are adsorbed on the pre-column (Baseline $2\rightarrow3$). COSMOSIL $5C_{18}$ -AR-II 4.6 mm I.D. x 10 mm or 10 mm I.D. x 20 mm as a pre-column.

