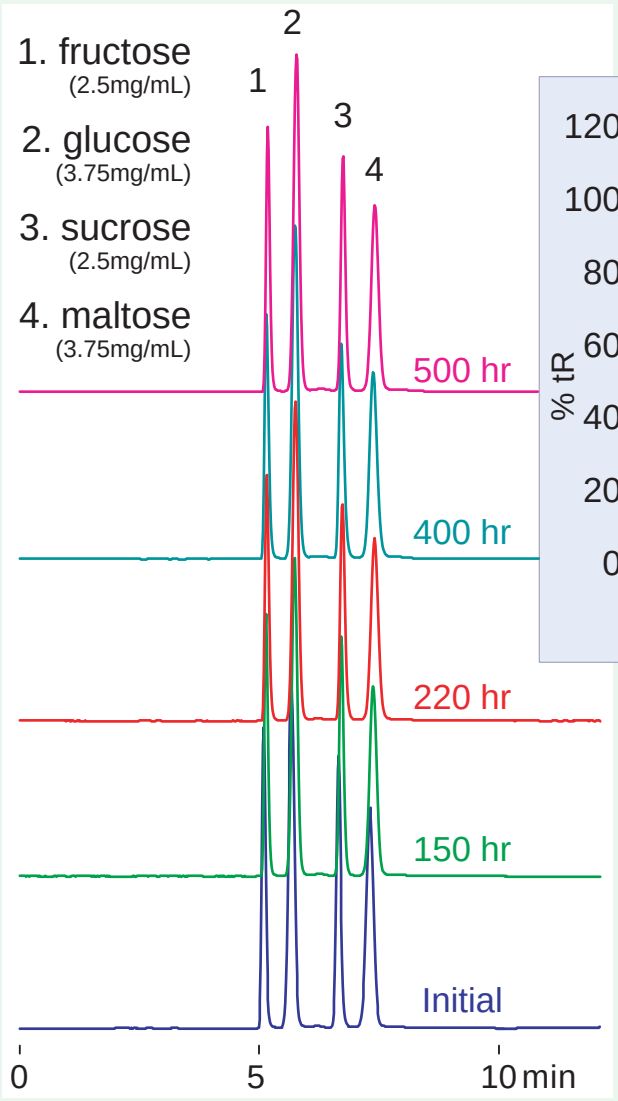
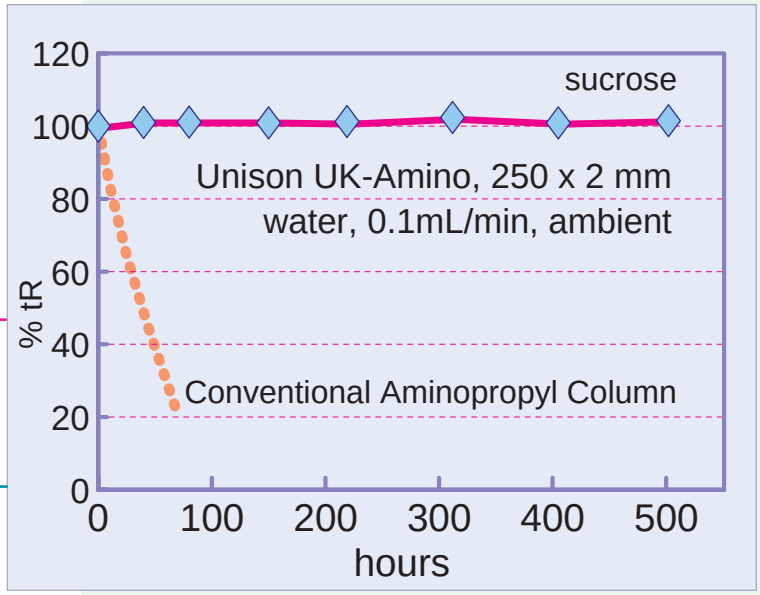
Unison UK-Amino Technical

Unequalled durability against water elution





Analytical Conditions

Unison UK-Amino
250 x 2 mm
acetonitrile /water = 75 /25
0.2mL/min (8MPa)
37 deg.C, 4uL
ELSD

Aqueous durable silica-based aminopropyl columns have been used for a long time as a normal phase column for carbohydrate separation. However, these aminopropyl columns have a fatal flaw: "column bleeding" or the rapid deterioration in retention as a result of ligand desorption under aqueous elution.

Our newly-designed Unison UK-Amino offers a different approach from conventional columns: high durability against aqueous eluent. As the above chromatogram demonstrates, conventional columns experience a significant decline in retention when an aqueous mobile phase elutes through the column. UK-Amino, on the other hand, does not show any change in separation or retention. This is a significant development in the history of aminopropyl columns.

UK-Amino's design not only provides analytical power, but the 3um particle high-resolution column has other benefits including the minimization of LC-MS and LC-ELSD noise levels. UK-Amino can be applied to aqueous normal phases conditions, and separation optimization is possible while comparing to ODS columns using reverse phase modes. One can expect significant results from this normal phase column of UK-Amino.