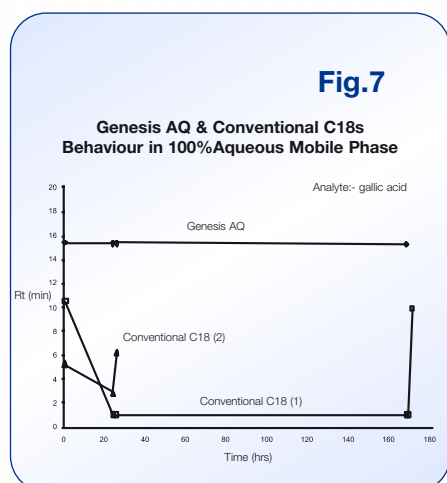


# Genesis AQ - Separation of hydrophilic analytes using high aqueous mobile phases

Genesis AQ is an ultra-pure, inert phase for the analysis of hydrophilic compounds. It offers fast equilibration times with high aqueous mobile phases and stable retention times. This leads to a fast, reliable and robust assay.



Genesis AQ can be used in up to 100% aqueous mobile phases without the ligand folding or non-wetting of traditional long chain, aliphatic stationary phases such as C18. This effect leads to a reduction in analyte retention time and often poor peak shape. Fig.7 shows this effect for two conventional C18 columns prone to this effect compared to the “inert” Genesis AQ.

Genesis AQ is a very stable product - it does not contain a polar embedded group but has an optimum ratio of C18 and short chains (not TMS) and neutral polar surface groups.

Retention with Genesis AQ is greater for polar solutes but lower for non-polar compounds compared to Genesis C18. Note in Fig 8 that uracil, a typical C18 unretained peak, is well retained on the AQ phase and that acids and bases give good peak shape.

