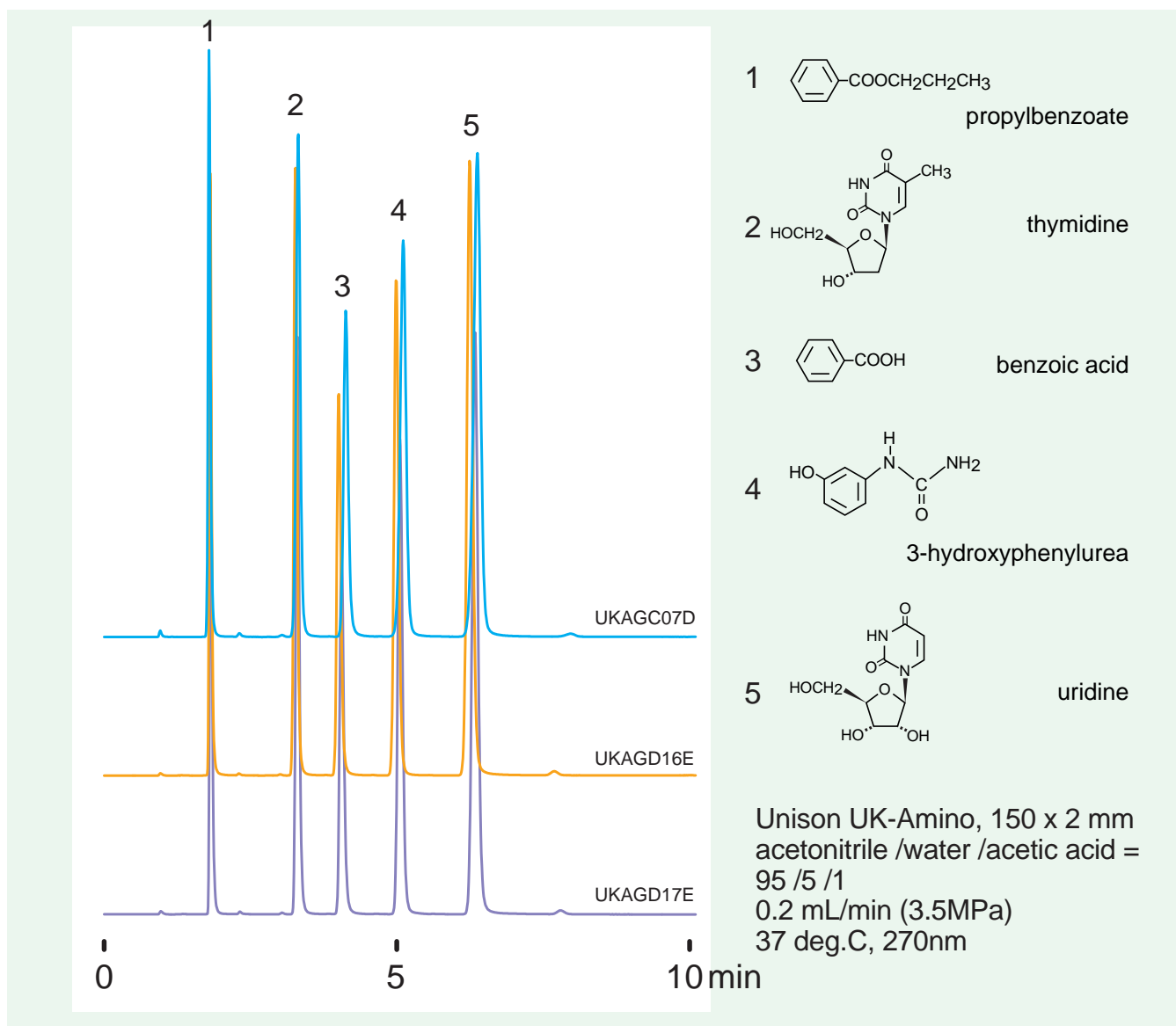


Unison UK-Amino

Technical

UK-Amino Batch-to-batch reproducibility



This is Unison UK-Amino stationary phase batch-to-batch reproducibility data.

We separated compounds with very different characteristics using anion exchange and normal phase modes. These include propylbenzoate (relatively low polarity), 4-hydroxyphenylurea (high-polarity), the deoxyribonucleoside thymidine (high basicity, pKa=9.8), the nucleoside uridine (pKa= 9.2) and the acidic compound benzoic acid (pKa=4.2). The result, the ionic and electrostatic interactions between the solute and stationary phase, was excellent reproducibility between packing material batches.

Conventional aminopropyl stationary phases struggle to achieve solute retention and repeatable separations as the interactions are complicated due to the presence of both normal phase and anion exchange modes. Unison UK-Amino addresses this problem with a novel stationary phase design to provides excellent reproducibility.