



Unison UK-C1

3µm silica particles
13nm pore
Methylsilyl ligands (USP: L13)
pH 1.5-9

Highly durable C1 phase

Amazing durability for acidic mobile conditions using formic acid or TFA

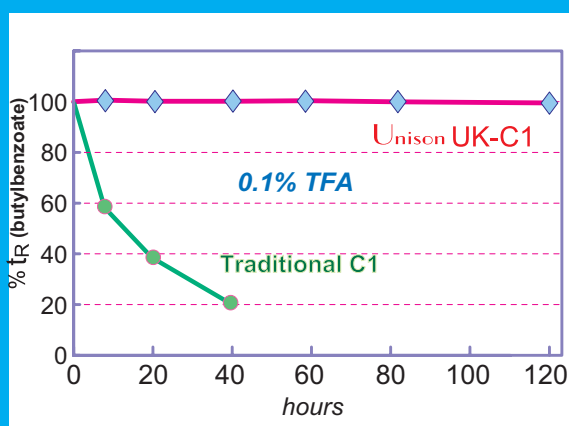
Excellent for compounds with a wide range of polarity

Analysis of super hydrophobic compounds which are difficult to elute on an ODS phase

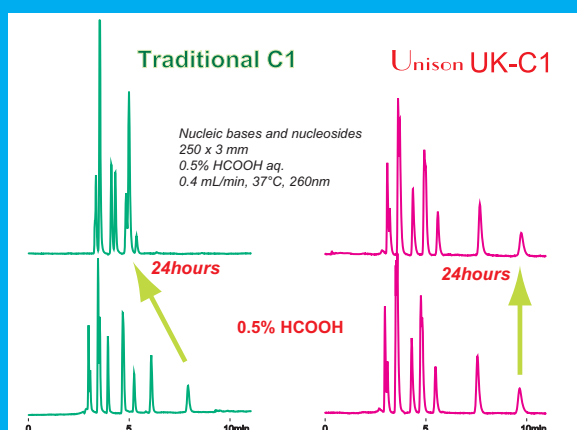
Alternative selectivity from C18 phase

High-performance, high pH 3µm particles

Acid stability (0.1% TFA)

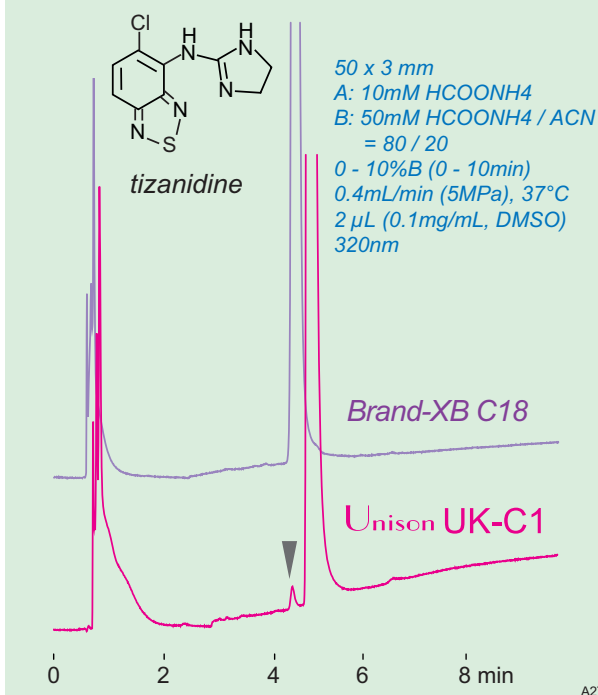


Acid stability (0.5% HCOOH)



A29

Tizanidine (muscle-relaxant) impurity



A27

Product Advantages

Durability of traditional C1 phases under aqueous mobile phase conditions has always been a significant challenge due to the ease of ligand hydrolysis. To address this problem, we utilized stationary phase designs from our Scherzo and Intrada series resulting in extraordinary aqueous stability for this C1.

Unison UK-C1, as expected, has lower hydrophobic retention than a C18 column, but due to proximity of polar silica surface, these columns exhibit hydrophilic retention characteristics. This provides a balance of both hydrophobic and hydrophilic separation modes, bringing differential selectivity for individual compounds. In the figure to the left, an impurity was resolved on our C1 phase, but not on a C18, thanks to this alternative selectivity.

Additionally, the Unison UK-C1 column easily separates highly hydrophobic compounds, which can be very difficult to elute on C18 columns.

