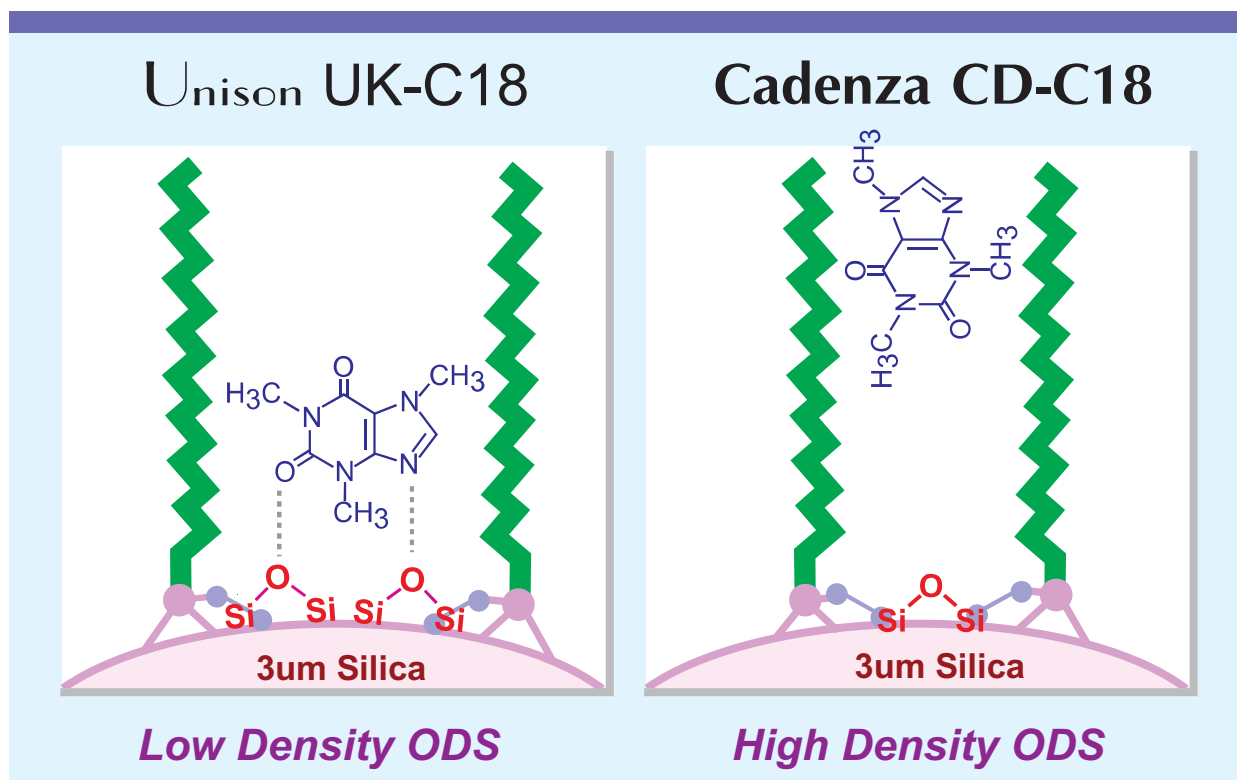


Unison UK-C18
Cadenza CD-C18

HPLC COLUMN TECHNICAL NOTE

Surface Structure of UK-C18 for High-Polarity Compounds



Unison UK-C18 has a slightly lower ODS ligand density compared to Cadenza CD-C18. As a result, highly polar substances such as caffeine tend to have longer retention times due to electrostatic interactions with the oxygen atoms of the siloxane (Si-O-Si) groups on the silica surface, compared to CD-C18.

Unison UK-C18 does not exhibit the sudden changes in retention of highly polar substances seen in high-density ODS columns, making it capable of highly reproducible analysis even with 100% aqueous mobile phases.

Additionally, by optimizing the ODS ligand density, Unison UK-C18 achieves a surface structure that provides balanced retention for substances ranging from high to low polarity.

As an ODS column ideal for investigating all types of reverse-phase separations, Unison UK-C18 is one of IMTAKT's most widely supported and representative ODS columns, trusted by many users worldwide.