Introduction

SOLGEL-WAX™ is a new technology WAX-type capillary column. A unique bonding process of encapsulating the polyethylene glycol into a solgel matrix is used. The solgel matrix is essentially a synthetic glass, which in turn is chemically bonded to the fused silica. The nature of this bonding process brings with it certain advantages over conventional wax columns. These advantages include excellent inertness, extremely resistant to degradation during acid analysis, greater reproducibility and a higher thermal stability of the column. The technology makes it the highest temperature wax column on the market.

The SOLGEL-WAX column has been shown to give excellent reproducibility over a large number of injections. Figure 1 shows a graph of a series of 300 injections of acetone in water injected onto SOLGEL-WAX. Note the excellent reproducibility of acetone in a difficult solvent such as water. The water does not interfere with any aspect of the chromatography showing that SOLGEL-WAX is an exceptionally robust column that will give reliable results under any conditions making it ideal for analysis of waste water contaminants.

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Summary

SOLGEL-WAX columns are the most robust, thermally stable, inert wax columns available on the market. The versatility of the SOLGEL-WAX column makes it ideal for multi purpose analyses able to achieve excellent separation and peak shape of a wide range of analyses.