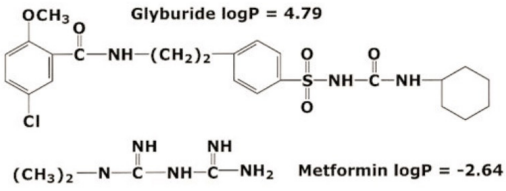
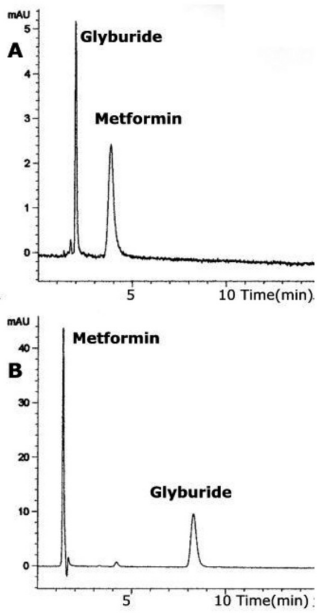
Glyburide and Metformin

Separation of "Highly Polar" and "Non-Polar" Compounds in one isocratic run





Notes: Elution order was confirmed by LC-MS, APCI+, with single ion monitoring Metformin (m/z 130) and Glyburide (m/z 369).

Method Conditions

Column: **Cogent Bidentate C18™**, 4µm, 100Å

Catalog No.: 40018-75P

Dimensions: 4.6 x 75 mm

Mobile Phase: A: 15% DI H_2O/ 85% acetonitrile/ 0.5% formic acid
B: 50% DI H_2O/ 50% acetonitrile/ 0.5% formic acid

Injection vol.: 1µL

Flow rate: 0.5 mL/min

Detection: UV 254 nm

Sample: Stock Solution: 100µg/µL glyburide and metformin

Discussion

The polar compound, Metformin, and the nonpolar compound Glyburide, can be retained on the same stationary phase (see A & B), utilizing the unique properties of the hydride based Cogent Bidentate C18 column. Depending on the mobile phase composition either Metformin or Glyburide can be retained longer.

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