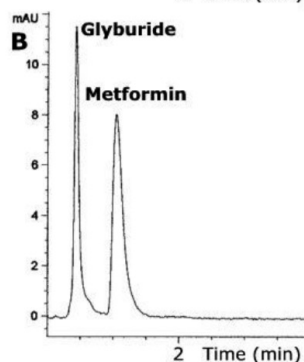
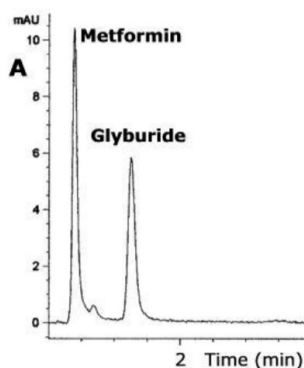
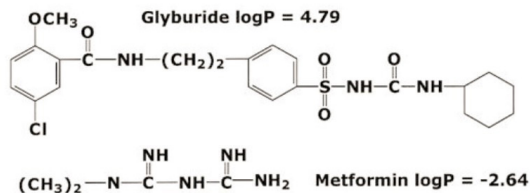


Glyburide and Metformin

Separation of “highly polar” and “non-polar” compounds...



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 Qx2™ Column for LC-MS Bidentate C18, 4µm, 100Å

Catalog No.: 40018-Q20

Dimensions: 2.1 x 20mm

Mobile Phase: A: 50% DI H₂O/ 50% acetonitrile/ 0.5% formic acid

B: 15% DI H₂O/ 85% acetonitrile/ 0.5% formic acid

Injection vol.: 1µL

Flow rate: 0.3 mL/min

Detection: UV 254 nm

Sample: Stock Solution: 100 µg/mL

Discussion

The polar compound, Metformin, and the non-polar compound, Glyburide, are retained on narrow bore LC-MS column. Mobile phase is optimized for LC-MS analysis. Depending on the composition of the Mobile Phase either Metformin or Glyburide can be retained longer. NO ION-PAIR HPLC METHOD IS NEEDED TO ANALYZE METFORMIN.