

Protein Precipitation vs. Ion Suppression of Medium Polar Drugs on strata Impact Square Well Plate

Column: Gemini® 3 µm C18 110 Å, LC Column 150 x 3 mm, Ea

Dimensions: 150 x 3 mm ID

Order No: 00F-4439-Y0

Elution Type: Gradient

Eluent A: 0.1% Formic acid/Water

Eluent B: 0.08% Formic acid/Acetonitrile

| Gradient Profile: | Step No. | Time (min) | Pct A | Pct B |
|-------------------|----------|------------|-------|-------|
| | 1 | 0 | 90 | 10 |
| | 2 | 5 | 50 | 50 |
| | 3 | 7 | 50 | 50 |

Flow Rate: 0.5 mL/min

Col. Temp.: ambient

Detection: Mass Spectrometer (MS) @ 249 amu (ambient)

Analyst Note: Protein Precipitation Protocol:

Phase: Strata Impact Square Well Plate, 2 mL (CEO-7565)

1. Dispense 300 µL acetonitrile into each well using an automatic pipettor.
2. Place the protein precipitation plate onto a suitable 96-well vacuum manifold. Make sure that a 96-well collection plate is positioned inside the manifold to collect the filtrate.
3. Dispense 100 µL of Porcine plasma into each well (acetonitrile:plasma = 3:1). Let it stand for 2 mins (no vortex /mixing required).
4. Apply 5-10" of mercury for 30-40 secs.
5. Collect the filtrate and blow down to dryness under slow stream of nitrogen @ 40 deg. C.
6. Reconstitute with 100 µL of mobile phase containing 10.0 ng of analyte.

Note: For ion suppression or enhancement estimation, a set of 4 blank (100 µL of water instead of plasma) was run in parallel.

Observation:

Filtrate looked very clean and clear

Results:

| Analyte | logP | m/z | % Variation | Effect |
|---------------|------|-----|-------------|-------------|
| 1. Pindolol | 1.75 | 249 | 15% | Suppression |
| 2. Metoprolol | 1.88 | 268 | 13% | Suppression |

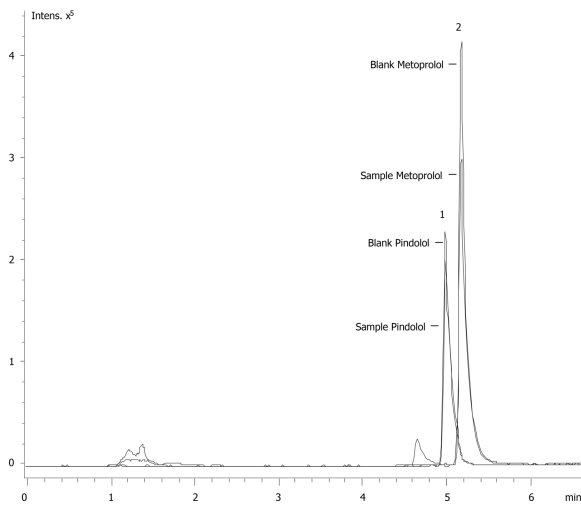


Products used in this application:



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ANALYTES:

- 1 Pindolol
- 2 Metoprolol

