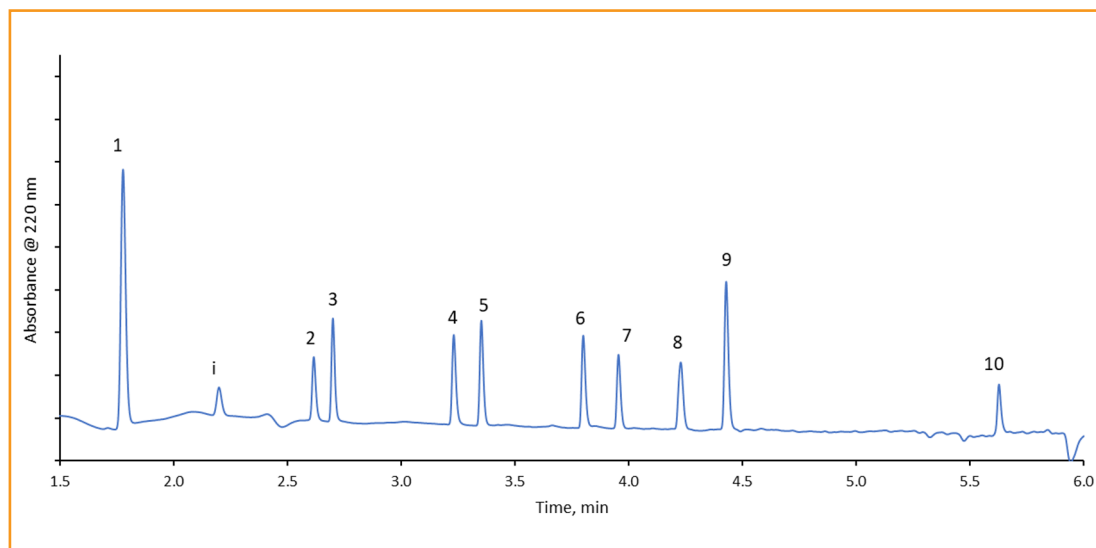




Beta Blockers on 2µm HALO® PCS C18

415



PEAK IDENTITIES:

1. Atenolol
2. Pindolol
3. Nadolol
4. Metoprolol
5. Acebutolol
6. Oxprenolol
7. Bisoprolol
8. Labetalol
9. Propranolol
10. Carvedilol

i = impurity in bisoprolol

TEST CONDITIONS:

Column: HALO 90Å PCS C18, 2.0 µm, 2.1 x 150 mm

Part Number: 91882-717

Mobile Phase A: Water, 0.1% Formic Acid

Mobile Phase B: Acetonitrile, 0.1% Formic Acid

Gradient Separation: Time: %B

0.00	3
5.00	36
6.50	100
7.50	100
8.00	3
12.00	3

Flow Rate: 0.4 mL/min.

Back Pressure: 599 bar

Temperature: 30 °C

Injection: 2.0 µL

Sample Solvent: 93/7 Water/ACN

Wavelength: PDA, 220 nm

Flow Cell: 1 µL

Data Rate: 40 Hz

Response Time: 0.1 sec.

LC System: Shimadzu Nexera X2

Beta blockers are widely prescribed to treat or prevent cardiovascular conditions such as arrhythmias, heart attacks, and hypertension. Using a 2 µm HALO® PCS C18 column with UV detection and an MS-compatible mobile phase, ten different beta blockers are cleanly separated in under 6 minutes. The 150 mm column delivers sharp resolution and rapid elution of all peaks, ensuring efficient analysis in a short run time.