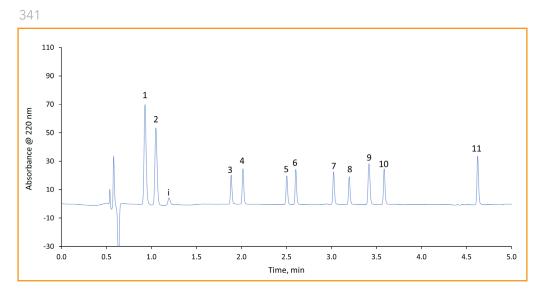
PHARMACEUTICALS

HALO



Beta Blockers Separation on HALO® PCS C18



PEAK IDENTITIES:

- 1. Sotalol
- 2. Atenolol
- 3. Pindolol
- 4. Nadolol
- 5. Metoprolol
- 6. Acebutolol
- 7. Oxprenolol
- 8. Bisoprolol
- 9. Labetalol
- 10. Propranolol
- 11. Carvedilol
- i = impurity in bisoprolol

TEST CONDITIONS:

Column: HALO 90 Å PCS C18, 2.7 µm, 2.1 x 100 mm Part Number: 92812-617 Mobile Phase: A: Water, 0.1% Formic Acid 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 3 12.00 Flow Rate: 0.4 mL/min Back Pressure: 281 bar Temperature: 30 °C Injection: 1.0 µL Sample Solvent: 93/7 Water/ACN Wavelength: PDA, 220 nm Flow Cell: 1 µL Data Rate: 100 Hz Response Time: 0.025 sec. LC System: Shimadzu Nexera X2

Beta blockers are used for the treatment and/or prevention of heart and circulatory conditions, such as arrhythmias, heart attack, and high blood pressure. Eleven different beta blockers are separated in under 5 minutes using a HALO® PCS C18 column with UV detection and a mobile phase that is MS compatible. In order to avoid peak splitting of the early eluting compounds, the sample solvent is kept at 7% organic concentration to better match the starting organic composition of 3%.



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