HALO®

PHARMACEUTICALS

Beta Blockers Separation on HALO® PCS C18

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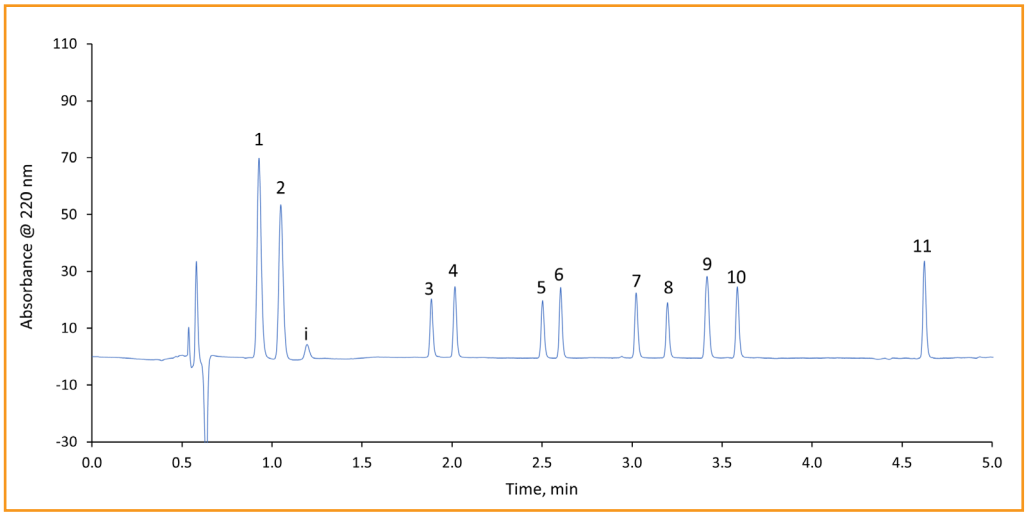

PEAK IDENTITIES:

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
12.00	3

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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