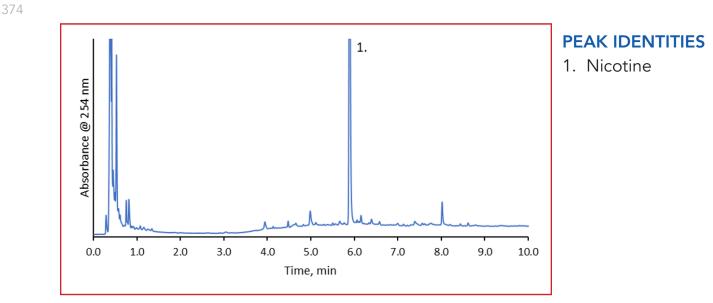
CLINICAL / TOXICOLOGY

HALO



Nicotine Analysis Using HALO[®] Elevate C18



TEST CONDITIONS:

Column: HALO 120 Å Elevate C18, 2.7 μm, 2.1 x 100 mm Part Number: 92272-602 Mobile Phase A: Ammonium Hydroxide, pH: 10.15 Mobile Phase B: Acetonitrile Gradient: Time %B

0.0	5
2.0	5
10.0	45
11.0	45
12.0	5

Flow Rate: 0.4 mL/min Back Pressure: 256 bar Temperature: 30 °C Injection: 0.5 μL Sample Solvent: 95/5 Water/ ACN Wavelength: PDA, 254 nm Flow Cell: 1 μL Data Rate: 100 Hz Response Time: 0.05 sec. LC System: Shimadzu Nexera X2 Nicotine is a naturally produced alkaloid found in several plants including tobacco. This analyte is highly addictive and can come in the form of a cigarette, patch, chewing tobacco, and even vaping oils. High pH mobile phases are ideal for analyzing nicotine due to the increase in retention and improved peak shape. (compared to low pH conditions) A cigarette is analyzed using a HALO[®] Elevate column under high pH conditions. Excellent peak shape and retention is achieved using a combination of ammonium hydroxide and acetonitrile.



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