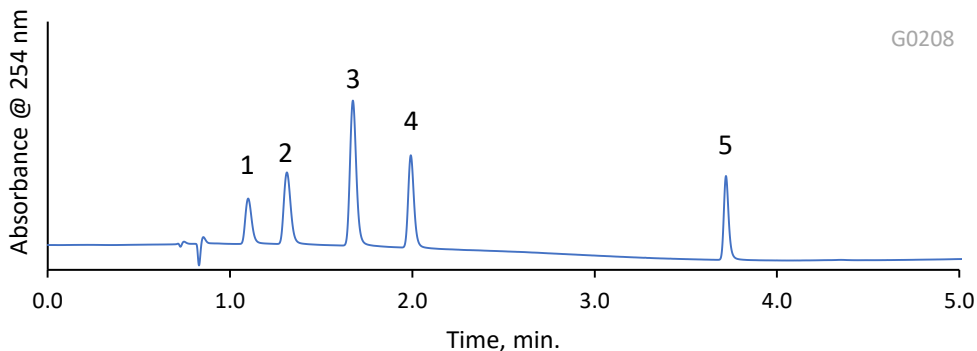


Separation of Nitro-imidazoles on HALO 90 Å AQ-C18



PEAK IDENTITIES:

1. 4-Nitroimidazole
2. 2-methyl-5-nitroimidazole
3. Metronidazole
4. Ronidazole
5. Ipronidazole

TEST CONDITIONS:

Column: HALO 90 Å AQ-C18, 2.7 µm, 2.1 x 100 mm

Part Number: 92812-622

Mobile Phase A: Water/ 0.1% Formic Acid

Mobile Phase B: Acetonitrile/ 0.1% Formic Acid

Gradient:	Time	%B
	0.0	10
	5.0	60

Flow Rate: 0.3 mL/min

Initial Pressure: 213 bar

Temperature: 30 °C

Detection: UV 254 nm, PDA

Injection Volume: 1.0 µL

Sample Solvent: Water

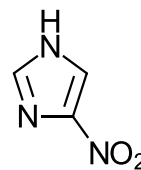
Data Rate: 40 Hz

Response Time: 0.025 sec

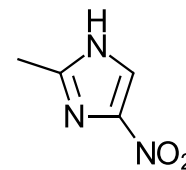
Flow Cell: 1 µL

LC System: Shimadzu Nexera X2

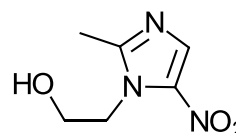
STRUCTURES:



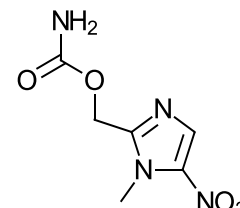
4- Nitroimidazole



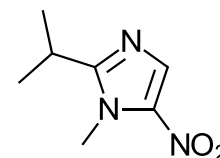
2-methyl-5-nitroimidazole



Metronidazole



Ronidazole



Ipronidazole

A mix of five nitro-imidazoles is separated on a HALO® AQ-C18 column. Nitro imidazoles are used to treat various types of infections. For example, Ipronidazole is a common veterinary medicine and classified as an antiprotozoal drug.