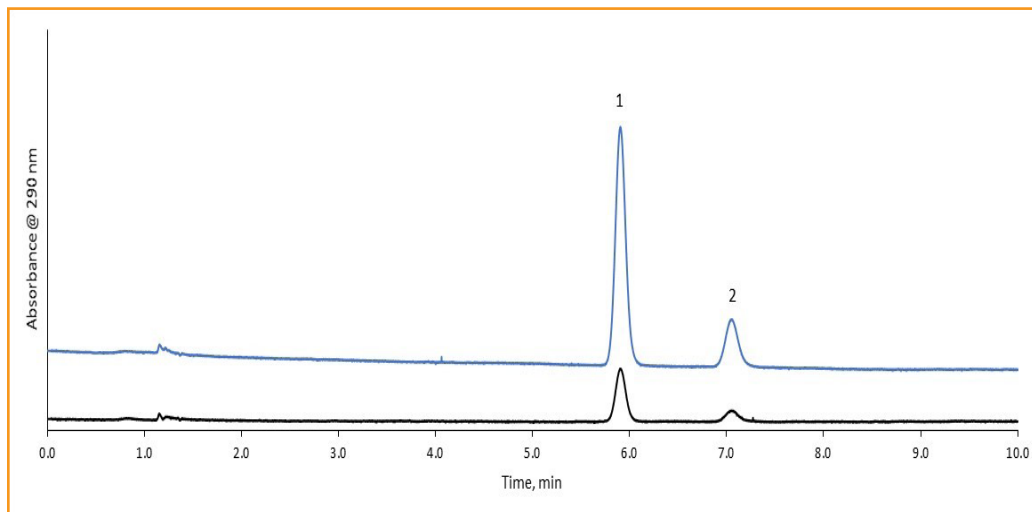




Sildenafil Citrate on HALO® 5 µm C18

234-P



PEAK IDENTITIES

1. Sildenafil
2. Sildenafil N-oxide

Sildenafil (better known as Viagra) is a medication used to treat erectile dysfunction. The drug came off patent in 2019. A HALO® 5 µm C18 column is used for the HPLC methods specified within the sildenafil citrate USP Monograph. This includes the diluted sample solution (1.4 µg/mL) and the sensitivity solution (0.35 µg/mL). Tailing factor, resolution, and signal to noise ratio requirements are all met showing excellent column performance.

TEST CONDITIONS:

Column: HALO 90 Å C18, 5 µm, 4.6 x 150 mm

Part Number: 95814-702

Mobile Phase: 58/25/17 (v,v,v) Buffer, Methanol, Acetonitrile

Buffer: 7 mL TEA in 1 L Water, adjusted to pH: 3 w/ phosphoric acid

Isocratic

Flow Rate: 1.0 mL/min

Initial Back Pressure: 193 bar

Temperature: 30 °C

Detection: 290 nm

Injection Volume: 10 µL

Sample Solvent: mobile phase buffer

Data Rate: 100 Hz

Response Time: 0.025 sec.

Flow Cell: 1 µL

LC System: Shimadzu Nexera X2

Concentration	Peak	TF	R _s	S/N
1.4 µg/mL	1	1.08		100
	2	1.13	5.17	20
0.35 µg/mL	1	1.06		25
	2	1.06	5.23	5

