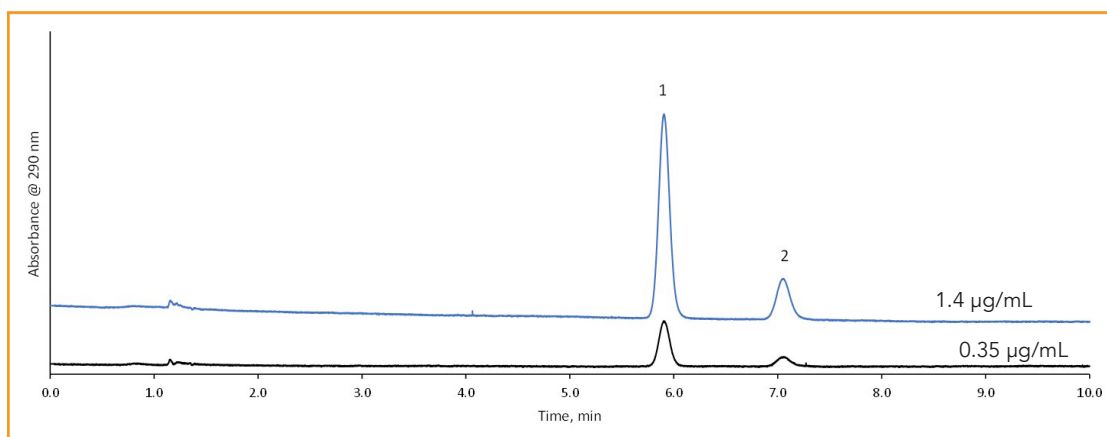




### Sildenafil Citrate on HALO® C18, 5 µm

234-P



#### PEAK IDENTITIES

1. Sildenafil
2. Sildenafil N-oxide

#### 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

**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 <sub>s</sub>	S/N
1.4 µg/mL	1	1.08	5.17	100
	2	1.13		20
0.35 µg/mL	1	1.06	5.23	25
	2	1.06		5

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.

