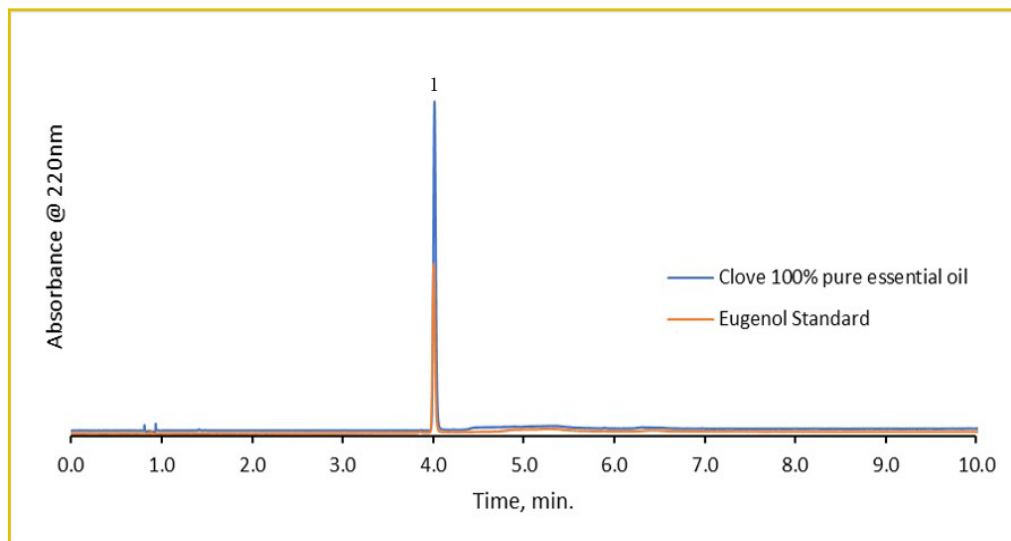




Analysis of Eugenol in Clove Oil on HALO® 5 µm C18

217-O



PEAK IDENTITIES:

1. Eugenol

TEST CONDITIONS:

Column: HALO 90 Å C18, 5 µm, 4.6 mm x 100 mm

Part Number: 95814-602

Mobile Phase A: Water

Mobile Phase B: Acetonitrile

Gradient:	Time	%B
	0.0	25
	10.0	100

Flow Rate: 1.0 mL/min

Initial Back Pressure: 147 bar

Temperature: 30 °C

Detection: 220 nm

Injection Volume: 1 µL

Sample Solvent: Methanol

Data Rate: 80 Hz

Response Time: 0.02 sec

Flow Cell: 2 µl micro cell

LC System: Agilent 1200

Clove oil is extracted from the clove plant by steam distillation. There are high amounts of eugenol in cloves, which can be used for several purposes. Not only does eugenol act as a perfume, it is also being used as an anesthetic for use on aquarium fish. Eugenol can also be used to create zinc oxide eugenol, which can be used to treat tooth pain in dentistry.

