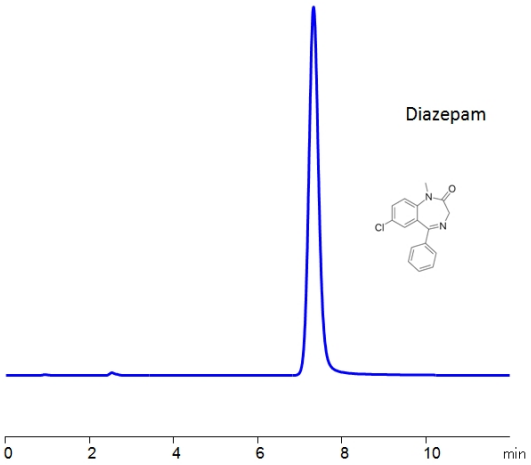
HPLC Determination of Diazepam on Newcrom R1 Column



Column:	Newcrom R1
Column size:	2.1 × 100 mm, 5 µm
Mobile phase:	MeCN/H2O – 30/70%
Buffer:	No
Flow rate:	0.2 ml/min
UV detection:	UV 240 nm

High Performance Liquid Chromatography (HPLC) Method for Analysis of Diazepam .

Diazepam , also known as Valium , is a benzodiazepine. It is thought that benzodiazepines work by enhancing the activity of certain neurotransmitters in the brain. Diazepam increases the activity of gamma-aminobutyric acid (GABA), a special chemical that can send signals throughout the nervous system.

Diazepam can be retained in HPLC on Newcrom R1 reverse-phase column with the simple isocratic mobile phase consisting of acetonitrile (MeCN) and water. The analysis method can be UV detected at 240 nm.

Method Parameters

Column	Newcrom R1, 2.1 x 100 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 30%
Buffer	No
Flow Rate	0.2 mL/min
Detection	240 nm

Quelle: https://sielc.com/hplc-determination-of-diazepam