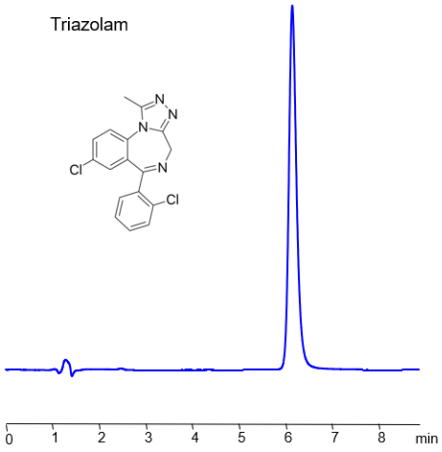
HPLC Method for Determination of Triazolam on Newcrom R1 Column



Column:	Newcrom R1
Column size:	2.1 × 100 mm, 5 µm
Column part number:	NAH-21.100.0510
Mobile phase:	MeCN/H_2O – 35/65%
Buffer:	H2SO4 – 0.2%
Flow rate:	0.2 mL/min
Detection:	UV 200 nm

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

Triazolam is a prescription-strength benzodiazepine with the chemical formula C17H12Cl2N4 . It is used to treat insomnia, as it is a central nervous system depressant tranquilizer. Compared to other benzodiazepines, it is fairly obscure, preventing misuse and abuse of it. It is a Schedule IV drug.

Triazolam can be retained and analyzed on a Newcrom R1 reverse-phase column using a simple isocratic analytical method with a mobile phase consisting of Acetonitrile (MeCN), water, and Sulfuric acid as the ionic modifier. This analysis method can be UV detected at 200 nm with high resolution and peak symmetry.

Method Parameters

Column	Newcrom R1, 2.1 x 100 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 35%
Buffer	H2SO4 – 0.2%
Flow Rate	0.2 mL/min
Detection	UV 210 nm

Quelle: https://sielc.com/hplc-method-for-determination-of-triazolam

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