

HPLC Method for Analysis of Tamsulosin

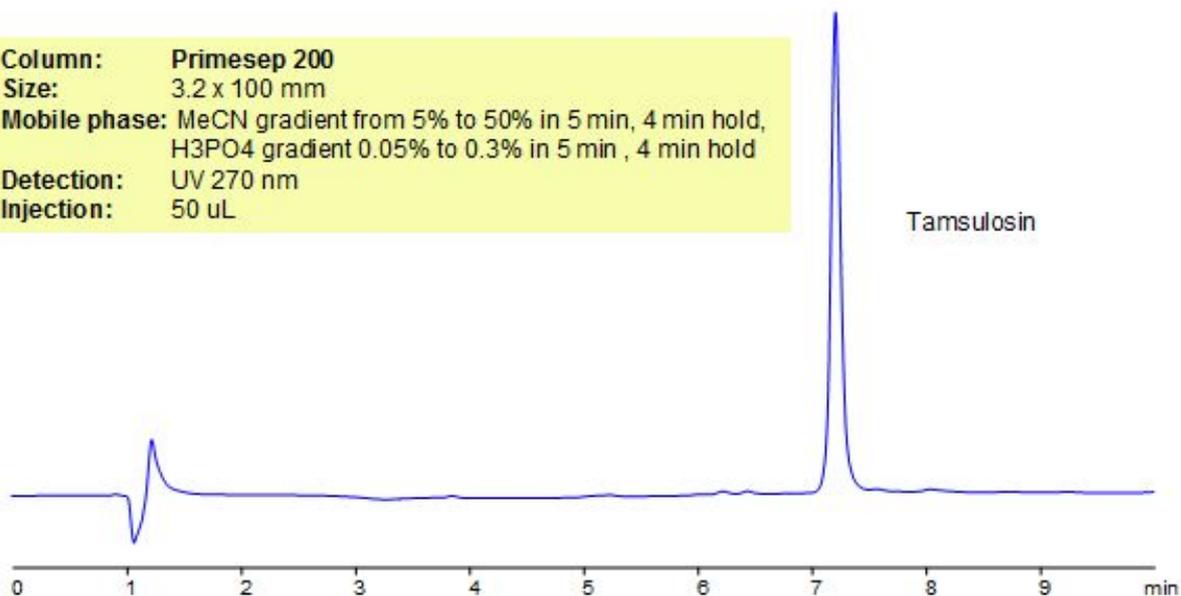
Column: Primesep 200

Size: 3.2 x 100 mm

Mobile phase: MeCN gradient from 5% to 50% in 5 min, 4 min hold,
H3PO4 gradient 0.05% to 0.3% in 5 min, 4 min hold

Detection: UV 270 nm

Injection: 50 uL



Tamsulosin is chemically 5-((2R)-2-((2-(2-ethoxyphenoxy)ethyl) amino)propyl)-2-methoxybenzene sulfonamide and a selective α_1 adrenoceptor blocking agent. It is used to treat BPH (benign prostatic hyperplasia). The treatment is associated with a low rate of serum aminotransferase elevations. Primesep 200, a reverse phase column, contains embedded acidic ionizable groups and can retain Tamsulosin. The method is UV compatible and can be used as a general approach for analyzing similar compounds.

Method Parameters

Column	Primesep 200, 3.2x100 mm, 5 μ m, 100 Å
Mobile Phase	Gradient MeCN – 5-50%
Buffer	Gradient H3PO4 – 0.05-0.3%, 5 min, 4 min hold
Flow Rate	0.5 mL/min
Detection	UV, 270 nm

Quelle: <https://sielc.com/HPLC-Method-Analysis-Tamsulosin>