

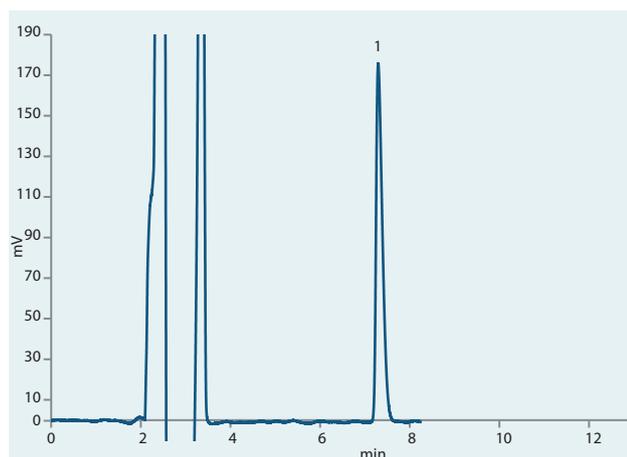
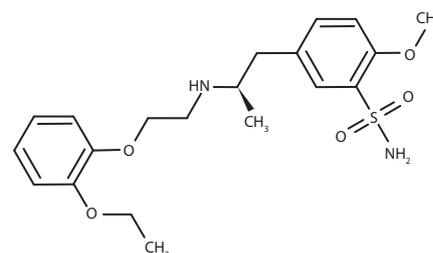


PHARMACEUTICAL DRUGS

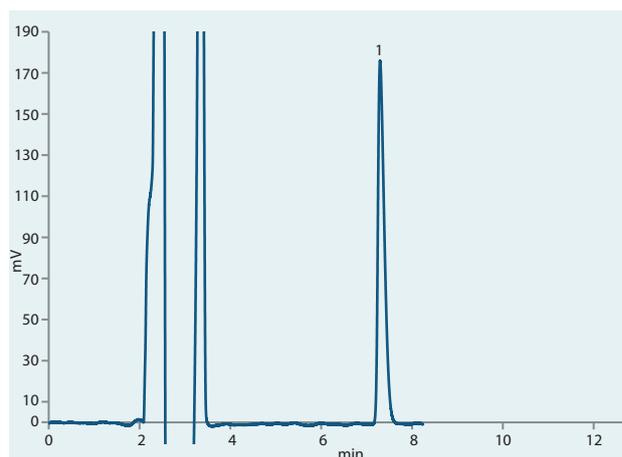
INTRODUCTION

Tamsulosin hydrochloride is used to treat the symptoms of an enlarged prostate. This drug is an alpha-blocker that works by relaxing the muscles in the prostate and the bladder. Tamsulosin is sold under various trade names, e.g. Flomax, Urimax, Contiflo XL, Mesir LP, Prostanil MR, Tamsin, Fokusin, etc. Shown below is a chromatogram of the determination of the tamsulosin hydrochloride content according to the proprietary method.

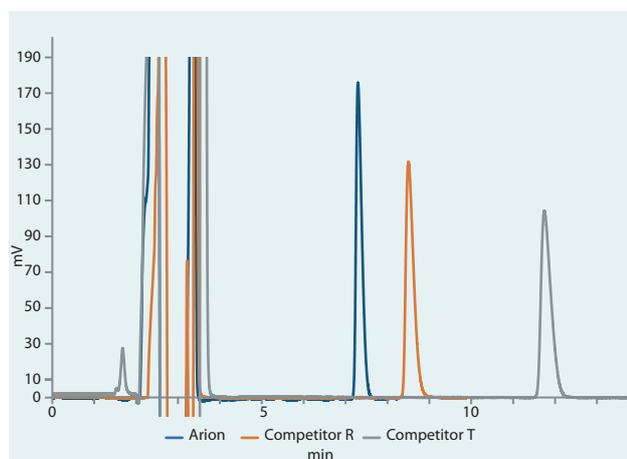
Substance: Tamsulosin, Flomax, CAS Number 106133-20-4
Synonym: Benzenesulfonamide, 5-[(2R)-2-[[2-(2-ethoxyphenoxy)ethyl]amino]propyl]-2-methoxy-
Formula: (R)-5-(2-[[2-(2-ethoxyphenoxy)ethyl]amino]propyl)-2-methoxybenzenesulfonamide



Standard mixture



Drug sample



Comparison of fully porous particles

Column	ARION® Plus C18, 5.0 µm
Dimensions	250 mm × 4.6 mm
Part number	ARI-5720-LM46
Mobile phase	acetate buffer / acetonitrile
Flow rate	1.0 ml/min
Temperature	30 °C
Detection	UV @225 nm
Analytes	1. Tamsulosin hydrochloride