Waters™

アプリケーションノート

Diltiazem HCL- Isolation of Impurities, Transfer from Analytical to Prep Columns

Waters Corporation

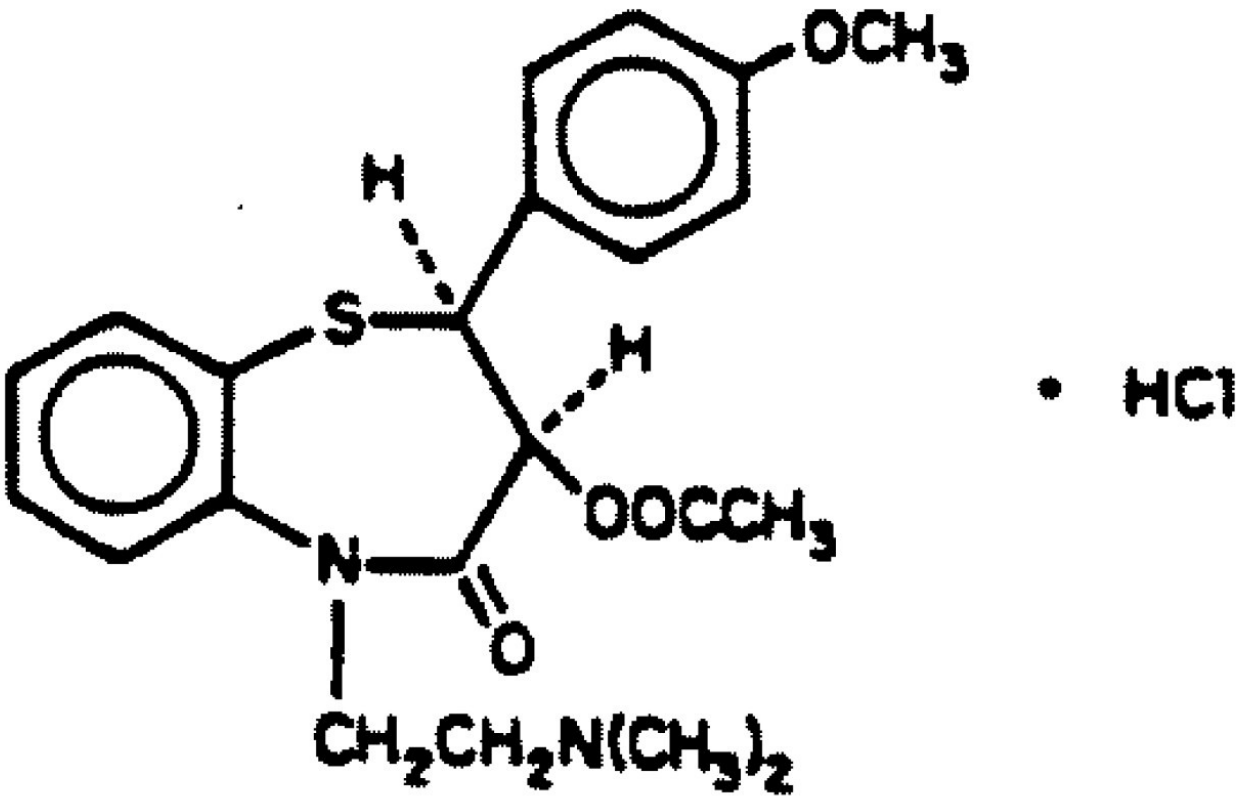
This is an Application Brief and does not contain a detailed Experimental section.

Abstract

This application brief demonstrates the analysis of Diltiazem HCL impurities using Symmetry Columns.

Introduction

The compound analyzed in this study is diltiazem HCL.



1. Diltiazem Hydrochloride

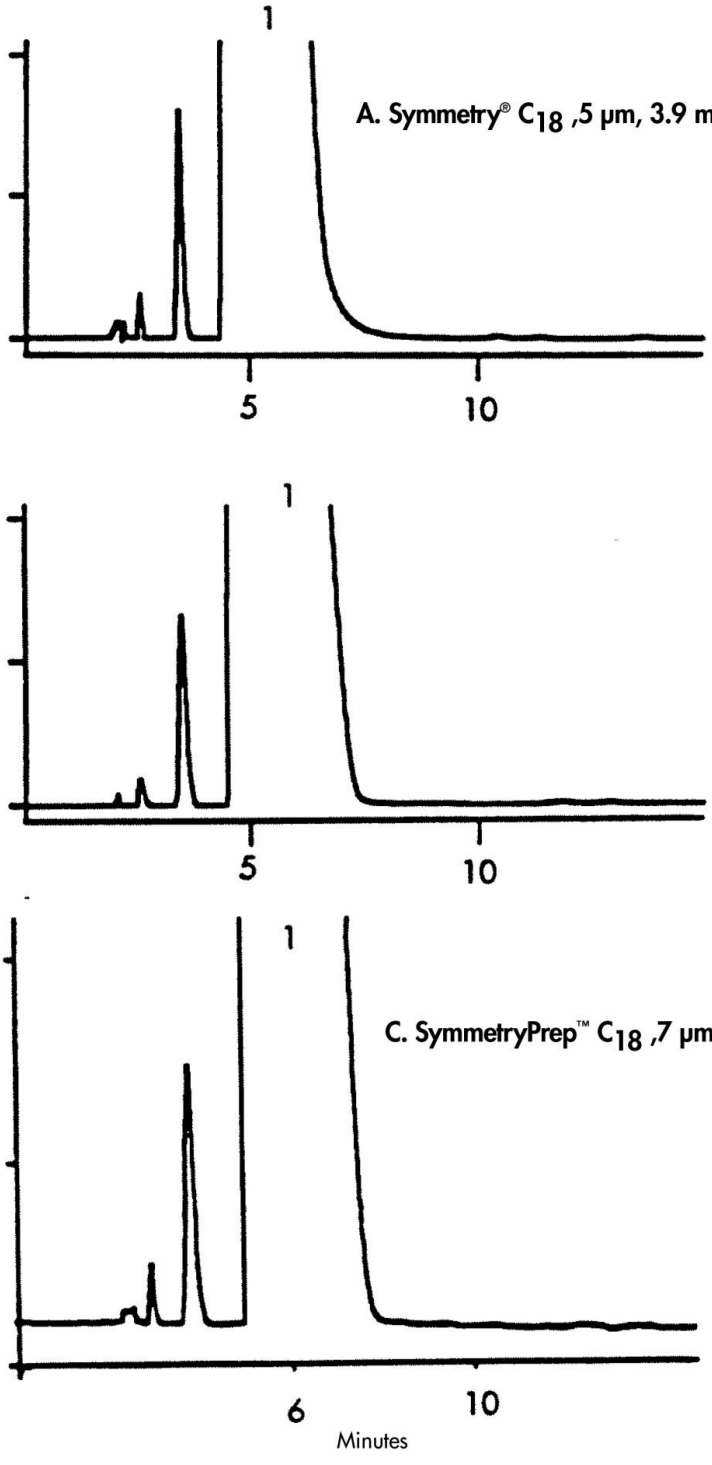
Experimental

HPLC Method

Column:	A. Symmetry C_{18}, 3.9 x 150 mm, 5 µm
	B. Symmetry Prep C_{18}, 7.8 x 150 mm, 7 µm

	C. Symmetry Prep C_{18}, 19 x 150 mm, 7 µm
Part numbers:	A. WAT046980
	B. WAT066288
	C. WAT066240
Mobile phase:	Acetonitrile/0.1% TFA in water 30:70
Flow rates:	A. 0.7 mL/min B. 2.8 mL/min C. 16.6 mL/min
Injection volume:	Diltiazem: A. 0.5 mg B. 2.0 mg C. 11.9 mg
Detection:	UV @ 280 nm

Results and Discussion


1
A. Symmetry® C18 ,5 µm, 3.9 mm x 150 mm
5
10
1
7.8 mm x 150 mm
5
10
1
C. SymmetryPrep™ C18 ,7 µm, 19 mm x 150 mm
6
10
Minutes

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