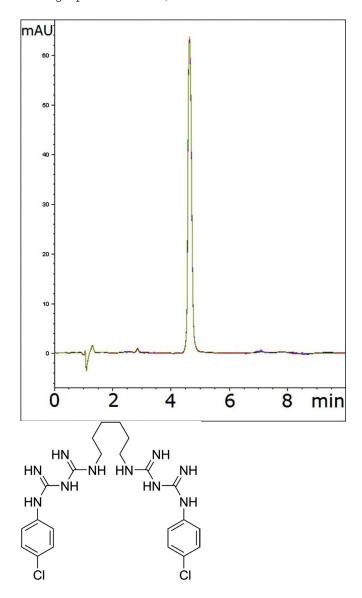


Chlorhexidine Analyzed with HPLC - AppNote

Rapid, Reliable Assay without Ion Pairing Agents

Chlorhexidine contains numerous amine functional groups that can have a detrimental effect on Peak Shape in HPLC. The USP Assay Method uses Triethylamine as an Ion Pairing Agent in the Mobile Phase for this reason. The Method developed in this Application Note uses only Formic Acid as the Mobile Phase Additive.

The *Figure* below illustrates how this Method avoids Peak Shape issues encountered in the USP Reversed Phase Monograph. In addition, this Method shows excellent Repeatability, shown by the five Chromatogram overlay.



Peak:

Chlorhexidine

Method Conditions

Column: Cogent Diamond Hydride[™], 4μm, 100Å

Printed from the Chrom Resource Center Copyright 2024, All Rights Apply

MicroSolv Technology Corporation

9158 Industrial Blvd. NE, Leland, NC 28451 tel. (732) 380-8900, fax (910) 769-9435

Email: customers@mtc-usa.com

Website: www.mtc-usa.com



Catalog No.: 70000-7.5P **Dimensions**: 4.6 x 75mm

Mobile Phase:

A: DI Water / 0.1% Formic Acid

B: 97% Acetonitrile / 3% DI Water / 0.1% Formic Acid

Gradient:

Time (minutes)	%B
0	75
5	10
6	75

Injection vol.: 2µL

Flow rate: 1.0mL / minute Detection: UV @ 239nm Sample Preparation:

Stock Solution: 1mg / mL Chlorhexidine in Methanol diluent.

Working Solution: A 100μ L aliquot of the Stock Solution was diluted to 0.1mg / mL using 900μ L 50:50 Solvent A / Solvent B mixture diluent.

to: 1.0 minute

Note: Chlorhexidine is an antiseptic which is used in a variety of common products, including contact lens solutions and mouthwash.



Attachment

No 143 Chlorhexidine Analyzed with HPLC pdf 0.3 Mb Download File

Printed from the Chrom Resource Center
Copyright 2024, All Rights Apply
MicroSolv Technology Corporation

9158 Industrial Blvd. NE, Leland, NC 28451

tel. (732) 380-8900, fax (910) 769-9435

Email: customers@mtc-usa.com

Website: www.mtc-usa.com