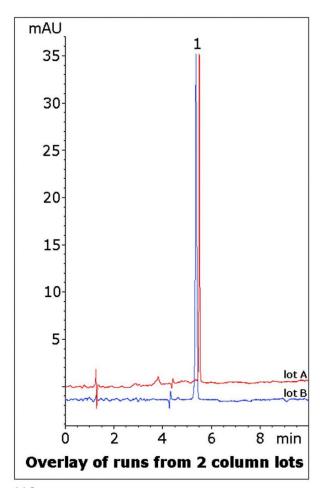


Hydromorphone Tablet Analyzed with HPLC - AppNote

Alternative to USP Method for this Opioid

The USP Method for Hydromorphone Tablet Assay calls for the use of Sodium Dodecyl Sulfate (*SDS*) in the Mobile Phase. In addition to not being LCMS compatible, adding it is time consuming to load and unload from the HPLC column. Often the columns are permanently altered and cannot be used for other analyses.

The Method conditions presented here do not require SDS and can be used in LCMS, which is advantageous since Hydromorphone is often analyzed in blood or urine matrices. Data from two column lots is shown to illustrate Method Robustness and Consistency.



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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



Hydromorphone

Method Conditions

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

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

Mobile Phase:

A: DI Water with 0.1% Formic Acid (v/v)
B: Acetonitrile with 0.1% Formic Acid (v/v)

Gradient:

Time (minutes)	%B
0	95
1	95
6	40
7	95

Post Time: 3 minutes Injection vol.: 2µL

Flow rate: 1.0mL / minute Detection: UV @ 280nm

Sample Preparation: 2mg strength Hydromorphone Tablet was ground and added to a 10mL volumetric flask. A portion of 50:50 Solvent A / Solvent B diluent was added and the flask was sonicated 10 minutes. It was then diluted to mark and mixed. A portion was filtered with a 0.45µm Nylon Syringe Filter (MicroSolv Tech Corp.).

to: 0.9 minutes

Note: Hydromorphone is a derivative of Morphine and is used as an analgesic to treat moderate to severe pain. It is available by prescription under various trade names such as Palladone® and Dilaudid®.



Attachment

No 248 Hydromorphone Tablet Analyzed with HPLC pdf 0.4 Mb Download File

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