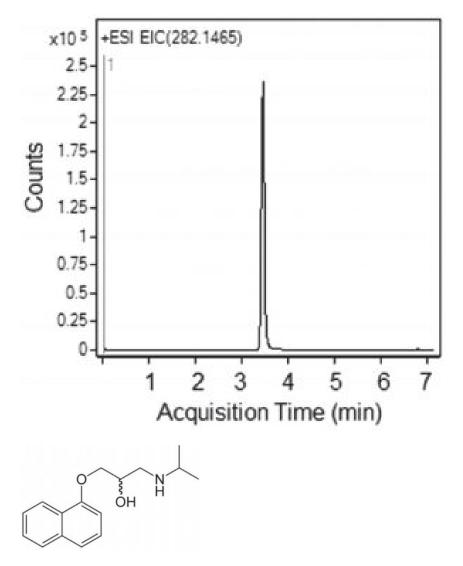
# MICROS

# Propranolol in urine analyzed by LCMS – AppNote

## Excellent peak shape for basic compound

The developed method permitted analysis of Propranolol in urine after simple sample preparation. The analysis is performed at a high concentration of Acetonitrile (*Acetone may be used as well*). The peak shape obtained for this basic compound was excellent. The method could be easily applied to analysis of Propranolol in blood samples after appropriate sample treatment.



#### Peak:

Propranolol 260.1645 m/z [M+H]+

### **Method Conditions**

Column: Cogent Diamond Hydride 2.0<sup>™</sup>, 2.2µm, 120Å Catalog No.: 70200-05P-2 Dimensions: 2.1 x 50mm Mobile Phase: 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



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

B: Acetonitrile / 0.1% Formic Acid (v/v)

#### Gradient:

Time ( <i>minutes</i> )	%B
0	90
4	30
6	30
7	90

Post time: 3 minutes

Injection vol.: 1 µL

Flow rate: 0.4 mL / minute

Detection: ESI - POS - Agilent 6210 MSD TOF Mass Spectrometer

**Sample Preparation:** A urine specimen from a volunteer taking Propranolol was collected in 10mL of 6.0 mol/L Hydrochloric Acid over a 24 hr. period. 400  $\mu$ L of Acetonitrile was added to 100  $\mu$ L of urine, and the sample was centrifuged (3000 g). Next, 20  $\mu$ L of the supernatant was mixed with 10  $\mu$ L of 50% Acetonitrile / 50% DI Water / 0.1% Formic Acid. The sample was filtered using a MicroSolv Tech Corp. Filter and injected into the LC-MS.

to: 0.3 minutes

**Note:** Propranolol is a non-selective beta adrenergic receptor blocker used in treatment of hypertension, angina pectoris, cardiac arrhythmia, and sometimes as a doping agent in sports. It is also used as a preventive drug in migraine.



Attachment

Propranolol in Urine pdf Download File

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