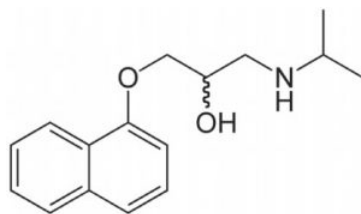
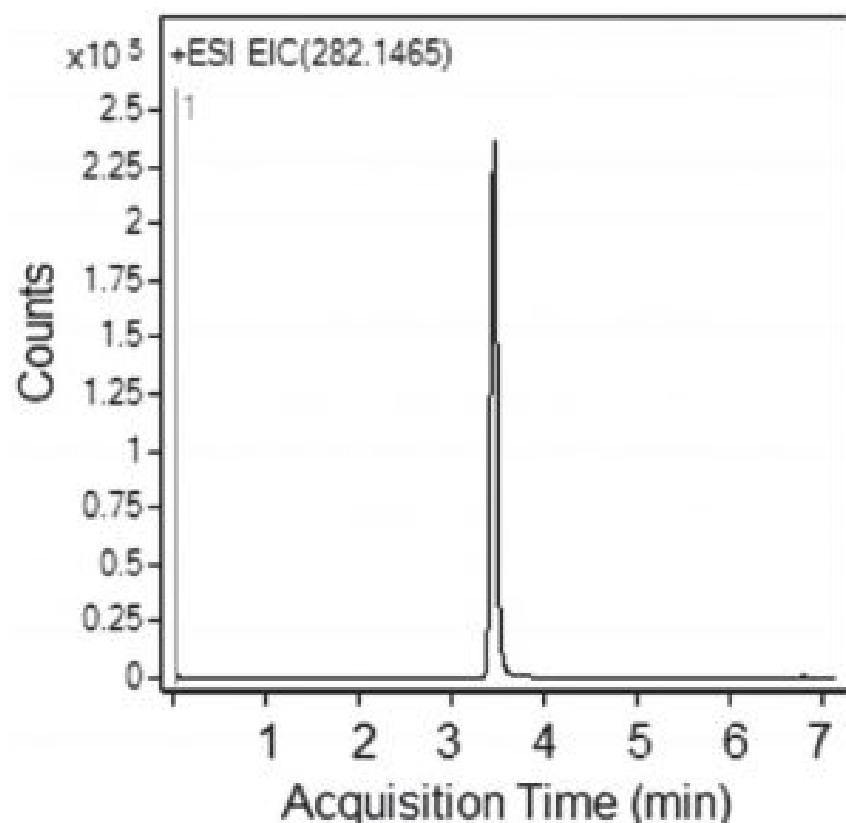


## Propranolol in urine analyzed by LCMS – AppNote

### 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]<sup>+</sup>

### Method Conditions

**Column:** Cogent Diamond Hydride 2.0™, 2.2μm, 120Å

**Catalog No.:** 70200-05P-2

**Dimensions:** 2.1 x 50mm

**Mobile Phase:**

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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 (minutes)	%B
0	90
4	30
6	30
7	90

**Post time:** 3 minutes

**Injection vol.:** 1  $\mu$ L

**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.

**t<sub>0</sub>:** 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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