

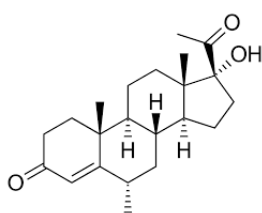
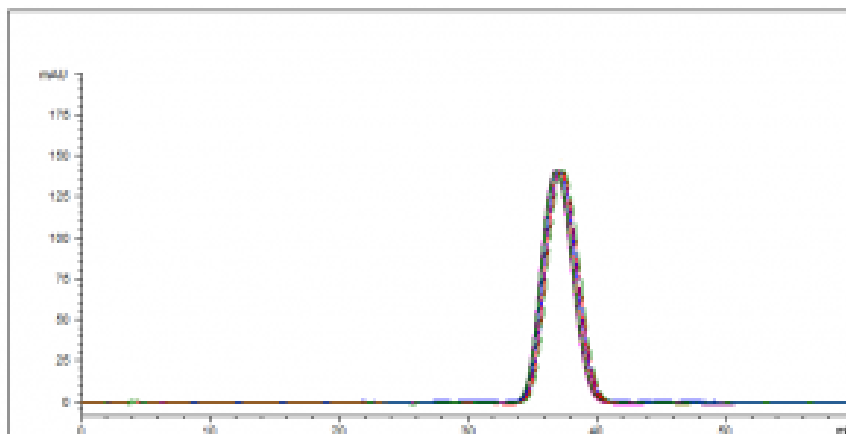
## Medroxyprogesterone USP assay with HPLC – INTERNAL ONLY

**CONFIDENTIAL – INTERNAL ONLY.** Click [here](#) for public AppNote.

### Alternate L1 column used for a USP assay of Medroxyprogesterone

This Similar USP Medroxyprogesterone is easily performed, and the 10 injections overlay below demonstrates run-to-run consistency and great peak symmetry. The peak efficiency is very good and peak tailing guidelines are easily met with RSD values of less than 1.0%.

*This demonstrates a good alternate column for your Medroxyprogesterone USP method.*



### Peak:

*Medroxyprogesterone*

### Method Conditions:

**Column:** Cogent MicroBee C18™, 5um, 100Å

**Catalog No.:** [59305-03](#)

**Dimensions:** 3.9mm x 300mm

**Mobile phase:** Acetonitrile and water (40:60)

**Flow rate:** 2.0mL / minute (we used 0.8 mL/min and met allowable changes per USP.) 2.0 mL/min produced too high backpressure for our efficient tubing/systems with this column dimension + packing.

**Injection volume:** 10 µL

**Detection:** UV @ 254nm

**Sample Preparation:** 1.0 mg/mL of Medroxyprogesterone in acetonitrile.

**Tailing factor:** NMT 2.0

**Relative standard deviation:** NMT 2.0%

**Note 1:** For the full method conditions and details, consult the official United States Pharmacopeia–National Formulary (USP–NF.)

**Note 2:** Medroxyprogesterone is a type of female hormone (progestin) and is used to prevent endometrial hyperplasia (thickening of the lining of the uterus or womb) in women who are taking conjugated estrogens.



Printed from the Chrom Resource Center

Copyright 2025, 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](mailto:customers@mtc-usa.com)

Website: [www.mtc-usa.com](http://www.mtc-usa.com)