

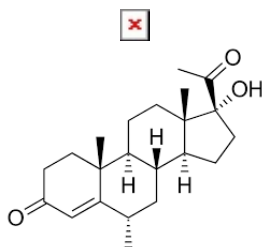
## Medroxyprogesterone USP assay with HPLC – INTERNAL ONLY

**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.

# MICROSOLV



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