

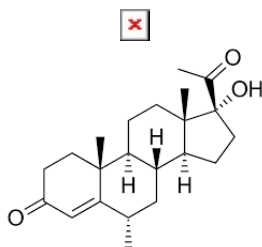
Medroxyprogesterone USP assay with HPLC – INTERNAL ONLY

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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™, 5µm, 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.

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Date: 05-18-2024