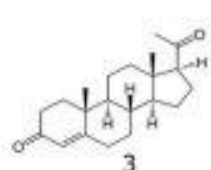
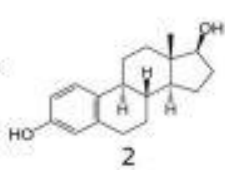
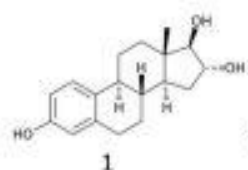
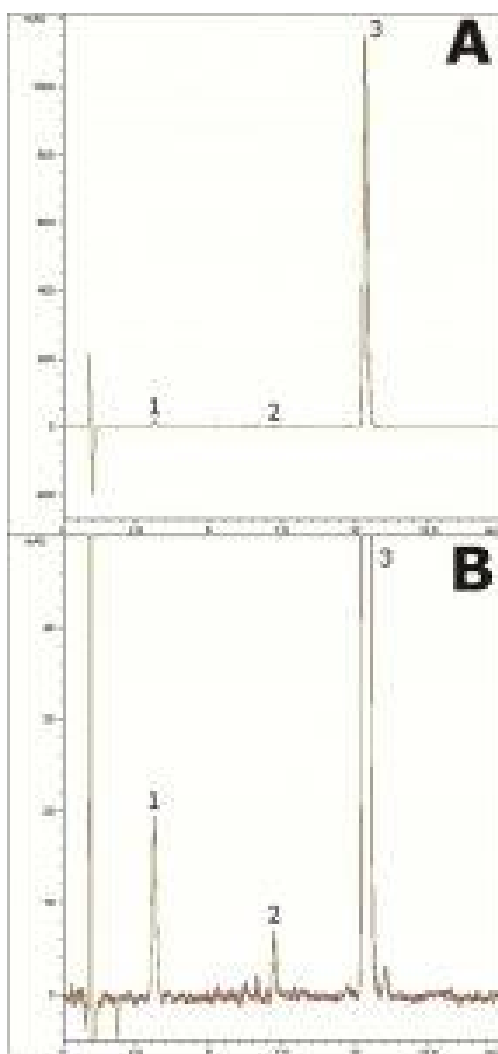


## Hormone Replacement Capsule Analysis by HPLC - AppNote

### Separation of Estriol, Estradiol, & Progesterone

This gradient method features a separation of the three components of a hormone replacement formulation. *Figure A* shows a five run overlay of the formulation extract injections. *Figure B* shows a zoomed-in view so that the Estriol and Estradiol Peaks, which are present in much lower concentration than Progesterone, can be seen clearly. *Figure B* also shows separation of an impurity from the Progesterone Peak.



**Peak:**

1. Estriol
2. Estradiol
3. Progesterone

**Method Conditions**

**Column:** Cogent UDC Cholesterol™, 4µm, 100Å

**Catalog No.:** 69069-7.5P

**Dimensions:** 4.6 x 75mm

**Mobile Phase:**

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

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

**Gradient:**

Time ( <i>minutes</i> )	%B
0	33
2	33
11	65
12	33

**Post Time:** 3 minutes

**Flow rate:** 1.0 mL / minute

**Detection:** UV @ 210nm

**Injection vol.:** 1µL

**Sample Preparation:** The contents of a capsule containing 0.124 mg Estradiol, 1.001 mg Estriol, and 50 mg Progesterone were added to a 25 mL volumetric flask. The flask was diluted to mark with solvent B and sonicated 10 minutes. Then A portion was filtered with a 0.45µm Nylon Syringe Filter (MicroSolv Tech. Corp.). Peak identities were confirmed by individual standards of 0.1 mg / mL in a Solvent B diluent.

**Attachment**

**No 175 Hormone Replacement Capsule Analysis pdf** 0.4 Mb [Download File](#)