



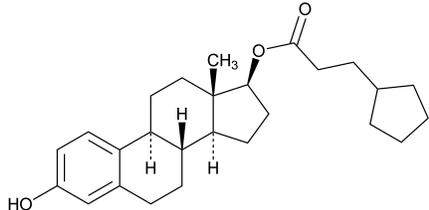
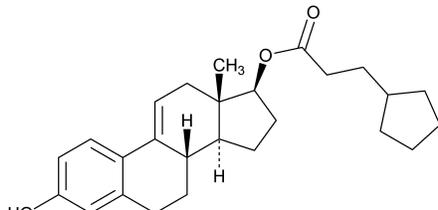
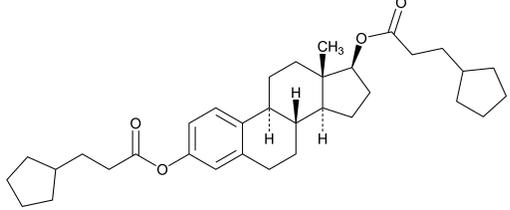
Certificate

ESTRADIOL CYPIONATE SYSTEM SUITABILITY MIXTURE

(This mixture contains estradiol cypionate, estradiol-9-ene cypionate, estradiol dicypionate, and 4-methylestradiol cypionate)

USP Catalog No.: 1252193

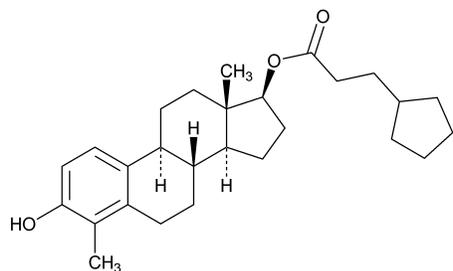
USP Lot No.: R16770

| | |
|--|---|
| <u>Estradiol Cypionate</u> (Estradiol 17-cyclopentanepropionate) | |
|  | CAS No.: 313-06-4 |
| | Molecular Formula: C ₂₆ H ₃₆ O ₃ |
| | Molecular Weight: 396.56 |
| <u>Estradiol-9-ene Cypionate</u> (3-Hydroxyestra-1,3,5(10),9(11)-tetraen-17β-yl cyclopentanepropanoate) | |
|  | CAS No.: N/A |
| | Molecular Formula: C ₂₆ H ₃₄ O ₃ |
| | Molecular Weight: 394.55 |
| <u>Estradiol Dicypionate</u> (Estra-1,3,5(10)-trien-3,17β-diyl di(cyclopentanepropanoate)) | |
|  | CAS No.: N/A |
| | Molecular Formula: C ₃₄ H ₄₈ O ₄ |
| | Molecular Weight: 520.74 |



4-Methylestradiol Cypionate

(3-Hydroxy-4-methylestra-1,3,5(10)-trien-17 β -yl cyclopentanepropanoate)



CAS No.: N/A

Molecular Formula: C₂₇H₃₈O₃

Molecular Weight: 410.59



LABEL TEXT

For use with specified USP compendial tests. Not for use as a drug. See SDS prior to use at www.usp.org/sds.



Lot: R16770



REFERENCE STANDARD

ESTRADIOL CYPIONATE SYSTEM SUITABILITY MIXTURE 10 mg

(This mixture contains estradiol cypionate, estradiol-9-ene cypionate, estradiol dicyponate, and 4-methylestradiol cypionate)



Danger! May cause cancer. May damage fertility or the unborn child.

Labeled for qualitative use. Keep container tightly closed. Store in a refrigerator. Protect from light.

See certificate for any additional information.

USP, 12601 Twinbrook Pkwy, Rockville, MD, +1-301-881-0666

Cat. No. 1252193 Material mfd. in Mexico

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. If exposed or concerned: Get medical advice/attention. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

Danielle A. Vattimo

Quality Assurance

Certificate Version History

| Version Number | Date | Reasons for Change |
|----------------|-------------|--------------------|
| 00 | 11-MAY-2022 | First issue |

**Assigned Value**

Please refer to the USP Reference Standard label and/or USP Certificate for the assigned value of the specific lot. If an assigned value is not included on the label or Certificate, the lot was developed for qualitative USP compendial use and an assigned value will not be provided.

Valid Use Date

It is the responsibility of the user to ascertain that a particular lot of a USP Reference Standard has official status either as a "Current Lot" or as a "Previous Lot" within the assigned valid use date. The online USP Reference Standards Catalog and the online USP Store at www.usp.org are updated daily. USP recommends referring to one of these sources prior to using a USP RS to make sure the lot is valid for use.

Storage

Storage conditions are lot-specific and may change from one lot to another. The storage condition for an unopened USP Reference Standard is provided on the container label only, not on the Safety Data Sheet. If no specific directions or limitations are on the label, conditions of storage include storage at room temperature and protection from moisture, light, freezing, and excessive heat. See General Chapter <659> in the USP-NF Online for storage and handling definitions.

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Follow the instructions provided on this Certificate, on the label of the USP Reference Standard, and in the associated USP documentary standard(s). Please refer to General Chapter <11> for additional information.

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Typical Chromatogram

USP Estradiol Cypionate System Suitability Mixture RS

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|---|
| Catalog Number: 1252193 |
| Lot: R16770 |
| Monograph: Estradiol Cypionate |
| Publication: USP-NF 2021 |
| Test: Assay and Organic Impurities |
| Sample: System suitability solution, as per monograph assay test |

