

# Urgent Field Safety Notice

## SBN-CPS-2016-005

RPD / Immunology  
Version 1  
22-Feb-2016

## Cross reactivity of Elecsys Estradiol assays with fulvestrant

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**Product Name**

Estradiol II  
Estradiol III

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**Product Description**

Elecsys Estradiol II assay  
Elecsys Estradiol III assay

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**GMMI / Part No**

Estradiol II 03000079190  
Estradiol III 06656021190

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**Production Identifier  
(Lot No./Serial No.)**

All lots

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**Type of Action**

Field Safety Corrective Action

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Dear Valued Customer,

### Description of Situation

An “Urgent Field Safety Notice” was recently published by Siemens Healthcare Diagnostics stating that fulvestrant may cause falsely elevated results with their Estradiol (E2) assays. Based on this information, Roche Diagnostics has tested for this interference/cross-reactivity (XR) for their E2 assays.

Investigation showed that an impact of fulvestrant on patient sample results with both Elecsys Estradiol assays (Estradiol II and Estradiol III) cannot be excluded.

### Actions taken by Roche Diagnostics

For a comprehensive assessment, investigations have been conducted. It turned out that there is a cross reactivity of fulvestrant with Elecsys Estradiol II and with Elecsys Estradiol III assays; see table 1 below for details.

# Cross reactivity of Elecsys Estradiol assays with fulvestrant

**Table 1: Cross reaction and results of Elecsys Estradiol assays caused by fulvestrant:**

assay	reference sample result [pg/mL]	spiked sample result* [pg/mL]	estradiol concentration delta [pg/mL]	percent change [%]	percent cross reaction** [%]
Estradiol II	9.7	29.5	19.8	203	0.079
Estradiol III	2.1	21.1	19.0	923	0.076

\* each sample was spiked with 25'000 pg/mL fulvestrant

\*\*  $\text{percent cross reaction} = \frac{\text{simulated analyte concentration}}{\text{spiked concentration cross reactant}} \times 100\%$

Information on fulvestrant should be obtained from the drug manufacturer(s).

If the estradiol status of postmenopausal women under treatment with fulvestrant is tested with Elecsys Estradiol II or Elecsys Estradiol III assays, an interference leading to falsely increased results of Estradiol due to the drug may occur. Subsequently the incorrect level of estradiol may lead to misinterpretations of the hormone status and the use of fulvestrant may be altered. In addition the efficiency of anti-estrogen treatment might be underestimated. A medical risk for postmenopausal women under fulvestrant treatment cannot be excluded.

## Actions to be taken by the customer

Due to the risk of cross reactivity, this assay should not be used when monitoring estradiol levels in patients being treated with fulvestrant

Notify your clinicians that fulvestrant will increase the apparent concentration of estradiol in women being treated with this drug. If treatment with fulvestrant has been altered or discontinued as a result of falsely elevated estradiol results an alternate method such as LC-MS, which is not expected to show cross reactivity to fulvestrant, should be used to measure estradiol concentrations and assess the menopausal status of the patient.

## Communication of this Field Safety Notice

Please transfer this notice to other organizations/individuals on which this action has an impact.

Please maintain awareness of this notice and resulting action for an appropriate period to ensure the effectiveness of the corrective action.

The undersigned confirms that this notice has been notified to the appropriate Regulatory Agency.

We apologize for any inconvenience this may cause and hope for your understanding and your support.

<closing salutations>,

# Cross reactivity of Elecsys Estradiol assays with fulvestrant

## Contact Details

*To be completed locally:*

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