Urgent Field Safety Notice

SBN-CPS-2020-001

CPS / Immunology
Version 5
October 2020

Elecsys CA 19-9: non-reproducible elevated results with reagent lots 416245, 464449, 483123 and 504743 on cobas e 801

Product Name	Elecsys CA 19-9
System	**cobas e** 801
GMMI / Part No **Device Identifier**	Elecsys CA 19-9 (**cobas e** 801, 300 tests) – 07027028 190
Production Identifier (Product name/Product code)	07027028 190: Lot 416245, 464449, 483123 and 504743
SW Version	n/a
Type of Action	Field Safety Corrective Action

Dear Valued Customer,

Description of Situation

As described in the former versions of FSN-CPS-2020-001, Elecsys CA 19-9 lots 416245, 464449 and 483123 on **cobas e** 801 showed in internal investigations and customer complaints an increased rate of non-reproducible elevated results.

The issue appears as follows:

Either result of multiple determinations is non-reproducibly elevated compared to the other results of the same sample aliquot. The issue has been observed with both plasma and serum samples.

The increased frequency of non-reproducible elevated results has been detected for reagent lots 416245, 464449 and 483123 which were released with restrictions in the former versions of FSN-CPS-2020-001.

The issue is reagent lot-specific and not related to **cobas e** 801 instrument.

The issue can lead to non-reproducible elevated Elecsys CA 19-9 results and therefore may affect clinical interpretation.

Reagents filled for **cobas e** 411/**e** 601/**e** 602 are unaffected.

Internal investigations after a maturation period of 14 weeks indicate that the upcoming Elecsys CA 19-9 lot 504743 shows also an increased rate of non-reproducible elevated results. Taking into account that a workaround (double determination) is in place allowing detection of high flyers and in order to ensure the market supply, it was decided to release the upcoming Elecsys CA 19-9 lot 504743 with the same restrictions. Double determinations for all results ≥ 37 U/ml CA 19-9 must be applied as a precautionary measure.

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The investigations revealed that in this case the occurrence of non-reproducible falsely elevated results is related to a contamination with magnetic/paramagnetic particles (no beads) that occurred during the filling process for **cobas e** 801 only. A unique root cause/source for this contamination was not identified yet. A multifactorial background is assumed. The underlying mechanism of interaction between proteins and (para-) magnetic particles is not yet fully understood. However, multiple countermeasures to prevent contamination with (para-)magnetic particles were implemented on the basis of the risk analysis of the filling process. Furthermore, additional QC release criteria were defined and put in place to assess if a production lot is affected by an increased high-flyer frequency or not.

Due to residual medical risk, customers must be informed regarding the workaround for lot 504743 using the FSN-CPS-2020-001 version 5.

Actions to be taken by Roche Diagnostics

Immediate corrections were already taken and countermeasures to prevent contamination with (para-)magnetic particles were implemented based on the risk analysis of the filling process.
Internal investigations are ongoing to elucidate other potential contributing factors, such as the maturation effect. Updates will be provided, as more information is available throughout investigation.

Actions to be taken by the customer/user

Based on the most recent complaints and our internal investigation, customers are advised to perform double determinations from the same tube for all results ≥ 37 U/ml CA 19-9 when using the reagent lots 483123 and 504743 in order to allow the detection of possible non-reproducible elevated results (high flyers). Customers can still use the entire ePack and there is no need to restrict the number of determinations to the first 200.

All reagent lots CA 19-9 (11776193 122) running on **cobas e** 411/**e** 601/**e** 602 can be used without restrictions.

Customers using Elecsys CA 19-9 (07027028 190) lots 416245 and 464449 (which run on **cobas e** 801) are advised to perform the following actions for the affected lots:

1. In order to reduce the frequency of non-reproducible elevated results, please ensure not to invert or shake the ePacks prior to loading on to the analyzer and discard each ePack of the affected lot after the first 200 determinations.
2. Perform double determinations from the same tube for all results ≥ 37 U/ml CA 19-9 in order to increase the detectability of possible non-reproducible elevated results (high flyers).

The contamination of Elecsys CA 19-9 assay lots with (para)magnetic particles is only one of the known causes of non-reproducible results. Although corrections have been made to prevent the contamination, other causes may still lead to a sporadic occurrence of non-reproducible results in the future.

Any specific questions raised by the users regarding review of results and possible re-testing should be addressed individually, considering all relevant clinical information.

<u>General reminder regarding occurrence of high flyers:</u>

Some of the most important aspects are:

- Correct and good sample preanalytic according to the specifications of the respective primary tube manufacturer (e.g. centrifugation time, speed, temperature)
- Avoidance or complete elimination of foam on or clots in the samples
- Regular and complete equipment maintenance according to the manufacturer's specifications

- Regular visual checks of e.g. the sample carriers to ensure correct positioning of the tubes on the analyzers.

Due to these alternative causes, flyers may continue to appear in the future at the frequency typical of the laboratory before the product problem.

Communication of this Field Safety Notice (if appropriate)

This notice must be passed on to all those who need to be aware within your organization where the devices have been distributed/supplied (if appropriate).

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 following statement is mandatory in FSNs for EEA countries but is not required for the rest of the World:

Include if applicable: 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>,

Contact Details

To be completed locally:

Name

Title

Company Name

Address

Tel. +xx-xxx-xxxx xxxx

Email name@roche.com