



Medical Devices Safety Notice

The National Health Regulatory Authority would like to alert all governmental and private healthcare facilities, local agents and distributors that the below medical device:

Device Details						
Device Name	Triglycerides 250 tests					
	Triglycerides 4X50 tests					
	Triglycerides 1000 tests					
Device Model	20767107322					
	04657594190					
	08058687190					
Manufacturer	Roche Diagnotics					
Country of Origin	Germany					
Reference	attached					
Reason of Alert	NHRA initiates this FSN due to updates in the Method Sheets for Triglycerides (TRIGL). Changes include:					
	1. Icterus Interference: Reducing the interference claim for unconjugated bilirubin from 35 to 10.					
	2. Prozone Check: Clarifying wording about false low results due to oxygen depletion.					
	3. Calibration Interval: Implementing a 56-day calibration interval for cobas [®] c 303 and cobas [®] c 503.					
Action should be	Please refer to "Actions to be taken by Customer/ User" in the attached FSN					
taken	And for more information please contact the authorized representative General Medical W.L.					
	registration.medics@intercol.com & meher.medics@intercol.com					

Your cooperation is highly appreciated in improving health services in the Kingdom of Bahrain.

For more information please contact Medical_Devices@nhra.bh



Quality Notification

13 June 2024

Subject: Triglycerides (TRIGL): Method Sheet Update of Icterus (I index), Prozone Check wording in section "Limitations - Interference", and additional timeout calibration interval

Product	Quant. GMMI			
Triglycerides (250 tests)	N/A 20767107322			
Triglycerides (1000 tests)	N/A 08058687190			
Triglycerides (4 x 50 tests)	N/A 04657594190			
Triglycerides (800 tests)	N/A 05171407190			
Triglycerides (800 tests)	N/A 05171407214			
Instrument/System	cobas® c 111 analyzer			
	cobas® c 303 analytical unit			
	cobas® c 311 analyzer			
	cobas® c 501 module			
	cobas [®] c 502 module			
	cobas® c 503 analytical unit			
	cobas [®] c 701 module			
	cobas® c 702 module			
	COBAS INTEGRA® 400 plus analyzer			
Component	Documentation			
	Reagent			
	System			
Target Group	Application			

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Subject

This Quality Notification covers three changes in the Method Sheets and instrument settings:

Topic 1) "Limitations - interference" Icterus: Update of the interference claim for unconjugated bilirubin (without setting change).

Topic 2) "Limitations - interference" Prozone Check: Improvement of the wording (without setting change) regarding the results for oxygen depletion during assay reaction.

Topic 3) Implementation of an additional timeout calibration interval of 56 days during the 26 weeks on board stability for cobas ® c 303 and cobas ® c 503.

Cat. No.	Analyzer	Test Short Name/ ACN/Test ID	Topic 1 - I index claim	Topic 2 - Oxygen depletion	Topic 3 - calibration interval
20767107322	cobas [®] c 311	ACN 781	x	x	
	cobas [®] c 501	ACN 781	х	x	
	cobas® c 502	ACN 8781	х	x	unchanged
	COBAS INTEGRA® 400 plus	Test ID 0-010	unchanged	x	
08058687190	cobas[®] c 303/ 503	ACN 21130	x	x	x
04657594190	cobas® c 111	ACN 781	unchanged	x	unchanged
05171407190	cobas [®] c 701	AONI 0704			
05171407214	cobas® c 702	ACN 8781	X	x	unchanged

Topic 1 - Icterus: I index interference claim for unconjugated bilirubin

For cobas ® c systems (except cobas ® c 111):

The I index interference claim for unconjugated bilirubin is reduced from 35 to 10 (corresponding to the approximate unconjugated bilirubin concentration of 599 μ mol/L (35 mg/dL) to 171 μ mol/L (10 mg/dL), respectively).

The I index interference claim for conjugated bilirubin is not affected and remains at 10.

As a consequence, the value for the I index in the application settings for the TRIGL assay remains at 10, since the I index measurement does not discriminate between conjugated and unconjugated bilirubin. Customers need to be informed about the I index interference claim reduction for unconjugated bilirubin in the TRIGL Method Sheets for cobas ® c systems.

No customer action is required regarding the application settings on the instrument.

For COBAS INTEGRA ® 400 plus and cobas ® c 111:

The I index interference claim in the TRIGL Method Sheet for COBAS INTEGRA ® 400 plus and for cobas ® c 111 remains valid and unchanged at 5 for both conjugated and unconjugated bilirubin.

Topic 2 - Prozone Check: Results for oxygen depletion during assay reaction

For cobas ® c systems (except cobas ® c 111):

Currently, it is stated that "False normal results are due to oxygen depletion during assay reaction". It is possible that low TRIGL results outside the reference range are generated, due to oxygen depletion. For better clarification, the wording is changed to "False low results are due to oxygen depletion during assay reaction".



For COBAS INTEGRA ® 400 plus and cobas ® c 111:

The Antigen Excess-Check is not implemented in the TRIGL applications on COBAS INTEGRA @ 400 plus and cobas @ c 111.

Reason: Due to the technical design of the mixing procedure, the risk for oxygen depletion on these two systems is very low. No false low values for TRIGL on both systems were reported so far. The wording "Extremely lipemic samples (triglycerides greater than 3000 mg/dL) can produce false low results." is implemented precautiously.

Topic 3 - Implementation of additional timeout calibration interval of 56 days during the 26 weeks on board stability

For cobas ® c 303, cobas ® c 503

For TRIGL, a reagent aging effect was detected. This aging effect could cause recovery drifts in QC and patient samples. Therefore, an additional timeout calibration interval of 56 days during the 26 weeks OBS is implemented.

For cobas ® c 501/502, cobas ® c 701/702 and cobas ® c 311 systems:

These systems are not affected because the reagent on board stability claim is already at 56 days for cobas ® c pack small and 14 days for cobas ® c pack large.

For COBAS INTEGRA ® 400 plus and cobas ® c 111 systems:

These systems are not affected due to the different test principle. The blank value of the reagent is measured first before the addition of the sample. Therefore, any change of the blank reagent absorbance is subtracted within every measurement, thus eliminating the effect caused by reagent aging.

Root Cause

Topic 1 - Icterus: I index interference claim for unconjugated bilirubin

The current I index claim for unconjugated bilirubin interference (35) is based on the interference testing on cobas @ c 501 master system according to a requirement for interference testing at only one concentration. During application work for cobas @ c 503, the bilirubin interference was tested at two concentrations.

The interference claim for 35 mg/dL unconjugated bilirubin was not met for the sample with elevated triglyceride concentration on cobas @ c 503 and cobas @ c 501. The scientific explanation is that the TRIGL assay shows an unusual behavior regarding unconjugated bilirubin interference. This interference is more pronounced at pathological (high) triglyceride concentration compared to triglyceride concentration around the medical decision point.

Topic 2 - Prozone Check: Results for oxygen depletion during assay reaction

For cobas ® c systems (except cobas ® c 111): The wording was improved as false low values that are not in the normal range are flagged by the Prozone Check, and thus invalid. The Prozone Check is encoded in the instrument settings for these systems.

For COBAS INTEGRA ® 400 plus and cobas ® c 111: The statement that extremely lipemic samples may produce false low results is added to the Method Sheets precautiously.

Topic 3 - Implementation of additional timeout calibration interval of 56 days during the 26 weeks on board stability

The reagent darkens over time. The TRIGL reagent is based on an enzymatic, colorimetric test principle. The TRIGL reagent is a mono reagent containing all ingredients in one solution. During on board storage time, the blank absorbance of the reagent increases due to color formation of the reagent solution.



Risk Assessment

Severity

The probability of occurrence of harm in combination with the issue related severity the overall risk has been determined as acceptable residual risk. Thus, an HHE is not required. For further information, please refer to the upcoming SN-RDS-CoreLab-2024-093.



Customer Details:

Facility Name: Contact Name: Position: Phone: Date: Signature and Stamp:

If you have any questions, please do not hesitate to contact our Application Support Team or your local Account Manager.

Yours sincerely,

For on behalf of **Roche Diagnostics Middle East FZCO**

Vergenne

Venkatesan Veeraraghavan Regional Quality Manager

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Hassan Kassem Regional Quality & Product Safety Lead, Middle East