

Survey: **KS4/15**  
month: **May 2015**  
Participant-No: **0004965**  
date of issue: **23.05.15**



Referenzzinstitut für Bioanalytik

diaglobal GmbH  
Dr. Rainer Schlegel  
Köpenicker Str. 325  
12555 Berlin



Ringversuchsleiter

Prof. Dr. C. Knabbe  
Prof. Dr. Dr. K.P. Kohse  
Prof. Dr. M. Neumaier

Leitung RfB

Dr. R. Kruse  
Dr. W. J. Geilenkeuser

Bonn, 11. June 2015

## Certificate

We confirm that you have participated in the survey for clinical chemical analytes in serum.

You have met the requirements of the survey for the following analytes:

bilirubin, total	(2)	cholesterol	(1)	glucose	(3)
urea	(1)	creatinine	(1)	lactate	(2)
triglycerides	(2)	calcium	(3)	magnesium	(4)
CK	(1)	AST	(1)	ALT	(1)

This certificate is valid until the end of November 2015.

*W. R. Kruse* *R. Geilenkeuser* *W. J. Geilenkeuser*

The number in parentheses characterizes the analytical method used.

The assignment of the number to the respective method and/or the respective instrument is to be taken from the total evaluation.

## Listing and Evaluation of all your results

### Explanations

#### Certificate

A certificate is issued (given) for an analyte only if the basis for an evaluation of the accuracy is given by the guidelines of the German Medical Association and/or if an evaluation is possible in analogy to these guidelines (see comments on the evaluation) and, if both results for an analyte are within the given acceptance limits. (marked as '+' below C)

#### Certificate of participation

In the participation certificate all analytes which are included in the list on this page are listed.  
If all analytes are listed on the certificate no participation certificate is printed.

Legend:	C=Certification, M=No of method, R=your result, D=difference (R-T) Dmax= maximum allowable amount of difference in measurement, partly given by annex 1 of the guideline of the BÄK (Dt. Ärzteblatt 111, Heft 38, 19.9.2014). T = target value, either reference method value or assigned value, LL   UL = lower resp. upper limit	Certification:	+ = fulfilled ( quotient   D/Dmax   <= 1.0 ) - = not fulfilled (quotient   D/Dmax   > 1.0 ) ± = certification cancelled because of technical and/or analytical reasons
---------	---	----------------	--

	<b>C</b>	<b>M</b>	<b>R</b>	<b>D/Dmax</b>	<b>T</b>	<b>LL</b>	<b>UL</b>					
bilirubin, total [mg/dl]	+	2	A 3.47 B 5.36	0.30 0.32	3.25 5.00	2.53 3.90	3.97 6.10					
cholesterol [mg/dl]	+	1	A 142 B 212	-0.05 -0.11	143 215	124 187	162 243					
glucose [mg/dl]	+	3	A 165 B 96.0	0.16 0.16	161 93.7	136 79.6	186 108					
urea [mg/dl]	+	1	A 142 B 91.2	-0.50 -0.13	158 93.7	126 74.9	190 113					
creatinine [mg/dl]	+	1	A 5.09 B 3.50	-0.58 -0.58	5.76 3.96	4.60 3.16	6.92 4.76					
lactate [mmol/l]	+	2	A 3.53 B 3.18	0.25 0.35	3.37 2.99	2.76 2.44	3.99 3.53					
triglycerides [mg/dl]	+	2	A 89.7 B 154	-0.33 -0.57	94.7 170	79.5 142	110 198					
calcium [mmol/l]	+	3	A 2.80 B 3.14	0.70 0.82	2.61 2.90	2.34 2.61	2.88 3.19					
magnesium [mmol/l]	+	4	A 1.50 B 1.37	0.08 0.09	1.48 1.35	1.25 1.14	1.71 1.56					
CK [U/l]	+	1	A 419 B 360	-0.12 0.15	429 349	343 279	515 419					
AST [U/l]	+	1	A 106 B 188	-0.09 -0.39	108 205	85.3 161	131 249					
ALT [U/l]	+	1	A 242 B 77.6	-0.08 0.34	246 72.3	194 57.1	298 87.5					