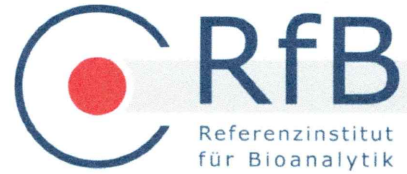


Survey: KS4/20  
month: May 2020  
Participant-No: 0004965  
date of issue: 16.05.20



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Bonn, 16. June 2020

## 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 according to the current version of the RiliBÄK valid until the end of November 2020.**

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.

Survey: **KS4/20**  
 month: **May 2020**  
 Participant-No: **0004965**



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)	Certification: + = fulfilled ( quotient   D/Dmax   <= 1.0 ) - = not fulfilled (quotient   D/Dmax   > 1.0 ± = certification cancelled because of technical and/or analytical reasons
	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	

	C	M	R	D/Dmax	T	LL	UL							
bilirubin, total [mg/dl]	+	2	A	1.89	0.22	1.80	1.40	2.20						
			B	1.33	0.35	1.23	0.959	1.51						
cholesterol [mg/dl]	+	1	A	138	0.27	133	115	151						
			B	176	0.66	162	140	183						
glucose [mg/dl]	+	3	A	105	0.00	105	89.1	121						
			B	252	0.04	250	212	288						
urea [mg/dl]	+	1	A	91.3	0.00	91.2	72.9	110						
			B	34.7	0.55	31.2	24.9	37.5						
creatinine [mg/dl]	+	1	A	1.80	0.35	1.68	1.34	2.02						
			B	4.50	0.08	4.42	3.53	5.31						
lactate [mmol/l]	+	2	A	3.19	0.41	2.96	2.41	3.51						
			B	6.48	0.50	5.93	4.85	7.01						
triglycerides [mg/dl]	+	2	A	213	0.56	195	163	227						
			B	120	0.60	109	91.6	127						
calcium [mmol/l]	+	3	A	3.43	0.02	3.42	3.07	3.77						
			B	1.77	-0.14	1.80	1.61	1.98						
magnesium [mmol/l]	+	4	A	1.65	0.33	1.57	1.33	1.81						
			B	1.27	0.55	1.17	0.995	1.35						
CK [U/l]	+	1	A	295	0.17	285	228	342						
			B	230	0.61	204	163	246						
AST [U/l]	+	1	A	183	-0.27	194	153	235						
			B	262	0.16	253	200	307						
ALT [U/l]	+	1	A	83.3	0.22	79.6	62.8	96.4						
			B	93.0	0.04	92.1	72.7	112						

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