

Survey: KS8/17
month: November 2017
Participant-No: 0004965
date of issue: 11.11.17



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Bonn, 28. November 2017

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 May 2018.

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.

http://www.rfb.bio/certificate?mr=0004965&v_id=KS178
&version=0&url=ETC8E06B9391401D88CCCE0172EF064F60

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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. Arzteblatt 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
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	C	M	R	D/Dmax	T	LL	UL								
bilirubin, total [mg/dl]	+	2	A	3.41	0.32	3.18	2.48	3.88							
			B	5.01	0.37	4.63	3.61	5.65							
cholesterol [mg/dl]	+	1	A	129	-0.28	134	116	152							
			B	211	-0.28	219	190	248							
glucose [mg/dl]	+	3	A	157	-0.08	159	135	183							
			B	90.5	-0.48	97.5	82.8	113							
urea [mg/dl]	+	1	A	148	-0.16	153	122	184							
			B	90.4	0.04	89.5	71.6	108							
creatinine [mg/dl]	+	1	A	5.85	0.15	5.67	4.53	6.81							
			B	4.32	0.43	3.97	3.17	4.77							
lactate [mmol/l]	+	2	A	3.45	0.25	3.30	2.69	3.90							
			B	3.03	0.16	2.94	2.40	3.48							
triglycerides [mg/dl]	+	2	A	99.2	-0.66	111	93.2	129							
			B	206	-0.20	213	178	248							
calcium [mmol/l]	+	3	A	2.48	-0.12	2.51	2.25	2.77							
			B	2.83	-0.07	2.85	2.56	3.14							
magnesium [mmol/l]	+	4	A	1.38	-0.36	1.46	1.24	1.68							
			B	1.30	-0.38	1.38	1.17	1.59							
CK [U/l]	+	1	A	372	0.09	365	292	438							
			B	230	0.17	222	177	267							
AST [U/l]	+	1	A	240	-0.04	242	191	293							
			B	189	-0.17	196	154	238							
ALT [U/l]	+	1	A	228	-0.04	230	181	279							
			B	75.9	0.02	75.5	59.6	91.4							