

Survey: KS4/17
month: May 2017
Participant-No: 0004965
date of issue: 27.05.17



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Bonn, 9. June 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)		

This certificate is valid until the end of November 2017.

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 BAK (Dts. 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
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	C	M	R	D/Dmax	T	LL	UL						
bilirubin, total [mg/dl]	+	2	A 1.81 B 3.51	0.45 0.43	1.64 3.20	1.27 2.49	2.01 3.91						
cholesterol [mg/dl]	+	1	A 140 B 125	-0.65 -0.50	153 134	133 116	173 152						
glucose [mg/dl]	+	3	A 74.1 B 162	-0.12 0.12	75.5 159	64.1 135	86.9 183						
urea [mg/dl]	+	1	A 191 B 143	-0.08 -0.32	194 153	155 122	233 184						
creatinine [mg/dl]	+	1	A 4.39 B 5.72	-0.03 0.04	4.42 5.67	3.53 4.53	5.31 6.81						
lactate [mmol/l]	+	2	A 2.16 B 3.47	0.48 0.28	1.98 3.30	1.60 2.69	2.35 3.90						
triglycerides [mg/dl]	+	2	A 74.5 B 102	-0.58 -0.51	82.1 111	68.9 93.2	95.3 129						
calcium [mmol/l]	+	3	A 3.63 B 2.66	0.45 0.57	3.47 2.51	3.12 2.25	3.82 2.77						
magnesium [mmol/l]	+	4	A 0.790 B 1.55	0.59 0.40	0.725 1.46	0.616 1.24	0.834 1.68						
CK [U/l]	+	1	A 535 B 355	0.07 -0.14	527 365	421 292	633 438						
AST [U/l]	+	1	A 99.3 B 251	-0.08 0.17	101 242	79.7 191	123 293						