

Survey: KS8/15
month: November 2015
Participant-No: 0004965
date of issue: 07.11.15



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Bonn, 26. November 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)	ALT	(1)		

This certificate is valid until the end of May 2016.

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

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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)	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	
	annax 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	2.35	0.73	2.02	1.57	2.47							
			B	3.47	0.31	3.24	2.52	3.96							
cholesterol [mg/dl]	+	1	A	140	-0.40	148	128	168							
			B	131	-0.63	143	124	162							
glucose [mg/dl]	+	3	A	107	-0.61	118	100	136							
			B	149	-0.48	161	136	186							
urea [mg/dl]	+	1	A	118	-0.04	119	95.2	143							
			B	156	-0.06	158	126	190							
creatinine [mg/dl]	+	1	A	1.70	-0.25	1.79	1.43	2.15							
			B	5.05	-0.61	5.76	4.60	6.92							
lactate [mmol/l]	+	2	A	4.16	0.42	3.86	3.16	4.57							
			B	3.69	0.53	3.36	2.75	3.98							
triglycerides [mg/dl]	+	2	A	122	0	122	102	142							
			B	87.9	-0.45	94.7	79.5	110							
calcium [mmol/l]	+	3	A	2.02	0.04	2.01	1.80	2.22							
			B	2.57	-0.15	2.61	2.34	2.88							
magnesium [mmol/l]	+	4	A	0.890	-0.17	0.914	0.776	1.06							
			B	1.45	-0.13	1.48	1.25	1.71							
CK [U/l]	+	1	A	430	0.13	419	335	503							
			B	440	0.12	429	343	515							
ALT [U/l]	+	1	A	170	-0.50	190	150	230							
			B	224	-0.42	246	194	298							