

Survey: **KS8/14**
month: **November 2014**
Participant-No: **0004965**
date of issue: **08.11.14**



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Bonn, 27. November 2014

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)
phosphorus, inorg.	(2)	CK	(1)	AST	(1)
ALT	(1)				

This certificate is valid until the end of May 2015.

W. Kruse *R. Schlegel* *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 105, Heft 7, 15.2.2008). 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 4.43 B 1.35	0.55 0.51	3.95 1.21	3.08 0.943	4.82 1.48						
cholesterol [mg/dl]	+	1	A 194 B 124	-0.12 0.06	197 123	171 107	223 139						
glucose [mg/dl]	+	3	A 220 B 257	0 0.18	220 250	187 212	253 288						
urea [mg/dl]	+	1	A 33.8 B 65.5	0.82 0.48	29.0 59.7	23.2 47.7	34.8 71.7						
creatinine [mg/dl]	+	1	A 3.63 B 4.65	0.58 -0.39	3.25 5.04	2.60 4.03	3.90 6.05						
lactate [mmol/l]	+	2	A 4.82 B 6.23	0.10 0.40	4.73 5.81	3.87 4.75	5.59 6.86						
triglycerides [mg/dl]	+	2	A 169 B 128	0.18 0.52	164 118	137 99.1	191 137						
calcium [mmol/l]	+	3	A 3.47 B 2.26	1.00 0.81	3.15 2.09	2.83 1.88	3.47 2.30						
magnesium [mmol/l]	+	4	A 1.94 B 1.24	-0.20 0.44	2.00 1.16	1.70 0.986	2.30 1.34						
phosphorus, inorg. [mmol/l]	+	2	A 1.30 B 1.45	0.14 0	1.27 1.45	1.06 1.21	1.48 1.69						
CK [U/l]	+	1	A 560 B 221	-0.07 0.02	568 220	454 176	682 264						
AST [U/l]	+	1	A 173 B 83.9	-0.43 -0.54	190 94.6	150 74.7	230 115						
ALT [U/l]	+	1	A 121 B 61.0	-0.48 -0.41	135 66.8	106 52.7	164 80.9						