

Survey: KS8/18
month: November 2018
Participant-No: 0004965
date of issue: 10.11.18



Referenzinstitut für Bioanalytik

diaglobal GmbH
Dr. Rainer Schlegel
Haus 41
Köpenicker Str. 325
12555 Berlin



Survey directors

Prof. Dr. C. Knabbe
Prof. Dr. Dr. K.P. Kohse
Prof. Dr. M. Neumaier

Head of RfB

Dr. W. J. Geilenkeuser
Dr. A. Kessler

Bonn, 28. November 2018

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)
AST	(1)	ALT	(1)		

This certificate is valid until the end of May 2019.

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) 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	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	4.57	0.16	4.35	3.04	5.66						
			B	1.51	0.18	1.43	1.00	1.86						
cholesterol [mg/dl]	+	1	A	160	0.19	156	135	177						
			B	147	0.21	143	124	162						
glucose [mg/dl]	+	3	A	207	0.09	204	173	235						
			B	79.3	0.17	77.3	65.6	88.9						
urea [mg/dl]	+	1	A	131	0.45	120	96.0	144						
			B	204	0.46	186	149	224						
creatinine [mg/dl]	+	1	A	4.37	0.62	3.88	3.10	4.66						
			B	4.75	0.49	4.32	3.45	5.19						
lactate [mmol/l]	+	2	A	5.03	0.17	4.87	3.98	5.77						
			B	2.00	0.35	1.88	1.53	2.22						
triglycerides [mg/dl]	+	2	A	77.0	-0.55	84.5	70.9	98.1						
			B	153	0.21	148	124	172						
calcium [mmol/l]	+	3	A	2.91	-0.17	2.96	2.66	3.26						
			B	3.35	-0.40	3.49	3.14	3.84						
magnesium [mmol/l]	+	4	A	1.65	-0.75	1.86	1.58	2.14						
			B	0.700	-0.48	0.755	0.641	0.869						
AST [U/l]	+	1	A	132	-0.48	147	116	178						
			B	112	0.50	101	79.7	123						
ALT [U/l]	+	1	A	208	-0.47	231	182	280						
			B	99.5	-0.44	110	86.6	133						