

Survey: KU3/21
month: July 2021
Participant-No: 9900540
date of issue: 03.07.21



Referenzinstitut für Bioanalytik

Všeobecná fakultní nemocnice V Praze
Centrální Laborator na ULBLD
Prof. MUDr. Zima, RNDr. Benáková
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CZECH REPUBLIC



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, 15. July 2021

Certificate

We confirm that you have participated in the survey for clinical chemical analytes in urine.

You have met the requirements of the survey for the following analytes:

glucose	(4)	uric acid	(3)	urea	(3)
creatinine	(1)	oxalate	(1)	total protein	(4)
a1-microglobulin	(1)	albumin	(1)	IgG	(1)
calcium	(6)	chloride	(4)	potassium	(2)
magnesium	(1)	phosphorus, inorg.	(1)	osmolality	(1)
proteinuria	(1)	pH ST	(2)	protein ST	(2)
glucose ST	(2)	hemoglobin ST	(2)	leukocytes ST	(2)
keton ST	(2)	nitrite ST	(2)	bilirubin ST	(2)
specific grav. ST	(2)	urobilinog. ST	(2)		

This certificate is according to the current version of the RiliBÄK valid until the end of January 2022.

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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Bonn, 15. July 2021

Participation certificate

We confirm that you have participated in the survey for clinical chemical analytes in urine.

The analytes determined by you are as follows:

glucose	(4)	uric acid	(3)	urea	(3)
creatinine	(1)	citrate	(1)	oxalate	(1)
total protein	(4)	a1-microglobulin	(1)	albumin	(1)
IgG	(1)	calcium	(6)	chloride	(4)
potassium	(2)	magnesium	(1)	sodium	(2)
phosphorus, inorg.	(1)	osmolality	(1)	proteinuria	(1)
pH ST	(2)	protein ST	(2)	glucose ST	(2)
hemoglobin ST	(2)	leukocytes ST	(2)	keton ST	(2)
nitrite ST	(2)	bilirubin ST	(2)	specific grav. ST	(2)
urobilinog. ST	(2)	diagn. graph A	(1)	diagn. graph B	(1)

The number in parentheses characterizes the analytical method used.
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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		C	M	R	D/Dmax	T	LL	UL
glucose [mmol/l]	+	4	A 0 B 6.98	-1.00 -0.46	0.555 7.77	0 6.04	0.678 9.50	glucose ST [ohne]	+	2	A Ch. 1 B Ch. 2		Ch. 1 Ch. 2	Ch. 1 Ch. 1	Ch. 1 Ch. 2
uric acid [µmol/l]	+	3	A 759 B 882	-0.36 -0.36	827 964	636 737	1018 1190	hemoglobin ST [ohne]	+	2	A Ch. 1 B Ch. 1		Ch. 1 Ch. 1	Ch. 1 Ch. 1	Ch. 1 Ch. 2
urea [mmol/l]	+	3	A 101 B 105	-0.18 -0.37	105 114	82.5 89.9	127 138	leukocytes ST [ohne]	+	2	A Ch. 1 B Ch. 1		Ch. 1 Ch. 1	Ch. 1 Ch. 1	Ch. 1 Ch. 1
creatinine [mmol/l]	+	1	A 9.03 B 9.29	0.05 -0.17	8.93 9.64	7.04 7.61	10.9 11.7	keton ST [ohne]	+	2	A Ch. 1 B Ch. 1		Ch. 1 Ch. 1	Ch. 1 Ch. 1	Ch. 1 Ch. 1
citrate [mmol/l]	-	1	A 1.06 B 0	-0.81 -3.33	1.40 0.330	0.980 0.231	1.82 0.429	nitrite ST [ohne]	+	2	A neg B neg		neg neg	neg neg	neg neg
oxalate [µmol/l]	+	1	A 187 B 198	0.85 -0.21	135 219	74.2 120	196 318	bilirubin ST [ohne]	+	2	A Ch. 1 B Ch. 1		Ch. 1 Ch. 1	Ch. 1 Ch. 1	Ch. 1 Ch. 1
total protein [g/l]	+	4	A 0.040 B 2.80	0.01 0.25	0.039 2.64	0 2.00	0.100 3.28	specific grav. ST [g/ml]	+	2	A 1.012 B 1.015	0.20 0.50	1.010 1.010	1.000 1.000	1.020 1.020
a1-microglobulin [mg/l]	+	1	A 2.00 B 164	-0.50 0.05	4.00 160	0 89.6	9.41 231	urobilinog. ST [ohne]	+	2	A Ch. 1 B Ch. 1		Ch. 1 Ch. 1	Ch. 1 Ch. 1	Ch. 1 Ch. 1
albumin [mg/l]	+	1	A 13.9 B 1900	0.05 0	13.5 1900	6.48 1406	20.6 2394	diagn. graph A [mg/g Krea]	±	1	A 13.6 B 1.96				
IgG [mg/l]	+	1	A 1.00 B 214	-0.72 -0.05	3.59 217	0 151	8.59 283	diagn. graph B [mg/g Krea]	±	1	A 1808 B 156				
calcium [mmol/l]	+	6	A 1.40 B 0.810	0.04 0.14	1.39 0.770	1.15 0.508	1.63 1.04								
chloride [mmol/l]	+	4	A 47.7 B 67.8	-0.19 -0.32	49.0 71.0	42.1 61.0	55.9 81.0								
potassium [mmol/l]	+	2	A 28.8 B 14.1	0.16 0.16	28.0 13.7	23.2 11.3	32.8 16.1								
magnesium [mmol/l]	+	1	A 2.02 B 1.49	-0.15 -0.12	2.10 1.54	1.55 1.13	2.65 1.95								
sodium [mmol/l]	-	2	A 63.6 B 103	1.30 0.58	55.0 96.0	48.4 84.4	61.6 108								
phosphorus, inorg. [mmol/l]	+	1	A 9.75 B 10.0	0.11 0.10	9.53 9.78	7.62 7.81	11.5 11.8								
osmolality [mosm/kg]	+	1	A 265 B 324	0.09 0.10	262 320	230 281	294 359								
proteinuria [ohne]	+	1	A Ch. 11 B Ch. 13		Ch. 11, Ch. 13,										
pH ST [ohne]	+	2	A 7 B 8		7,5 7,5	7 7	8 8								
protein ST [ohne]	+	2	A Ch. 1 B Ch. 4		Ch. 1 Ch. 3	Ch. 1 Ch. 3	Ch. 1 Ch. 4								

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