

Survey: **KL1/21**
month: **January 2021**
Participant-No: **9900540**
date of issue: **30.01.21**



Referenzinstitut für Bioanalytik

Vseobecna fakultni nemocnice V Praze
Centralni 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, 9. March 2021

Certificate

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

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

glucose	(4)	lactate	(1)	total protein	(5)
CSF albumin	(1)	CSF IgG	(1)	CSF IgA	(2)
CSF IgM	(2)	S-albumin	(1)	S-IgG	(1)
S-IgA	(1)	S-IgM	(1)	Q albumin	(1)
Q IgG	(1)	Q IgA	(2)	Q IgM	(2)
Q IgG/Q Alb	(1)	Q IgA/Q Alb	(7)	Q IgM/Q Alb	(7)
first-look ass.	(1)				

This certificate is according to the current version of the RiliBÄK valid until the end of July 2021.

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, 9. March 2021

Participation certificate

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

The analytes determined by you are as follows:

glucose	(4)	lactate	(1)	total protein	(5)
CSF albumin	(1)	CSF IgG	(1)	CSF IgA	(2)
CSF IgM	(2)	S-albumin	(1)	S-IgG	(1)
S-IgA	(1)	S-IgM	(1)	Q albumin	(1)
Q IgG	(1)	Q IgA	(2)	Q IgM	(2)
Q IgG/Q Alb	(1)	Q IgA/Q Alb	(7)	Q IgM/Q Alb	(7)
first-look ass.	(1)	detailed exam.	(1)	diagram IgG A	(1)
diagram IgA A	(1)	diagram IgM A	(1)	diagram IgG B	(1)
diagram IgA B	(1)	diagram IgM B	(1)		

W.J. Geilenkeuser A. Kessler

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 (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	+	4	A 4.10	-0.25	4.30	3.51	5.08	diagram IgG A	±	1	G 2.80				
[mmol/l]			B 4.20	-0.09	4.27	3.50	5.05	[Q Alb]			A 3.28				
lactate	+	1	A 1.83	0.13	1.78	1.42	2.14	diagram IgA A	±	1	A 2.80				
[mmol/l]			B 3.40	-0.01	3.41	2.71	4.10	[Q Alb]			A 2.91				
total protein	+	5	A 0.120	-0.35	0.131	0.100	0.162	diagram IgM A	±	1	M 2.80				
[g/l]			B 0.180	-0.41	0.199	0.153	0.245	[Q Alb]			A 2.31				
CSF albumin	+	1	A 125	-0.03	126	97.0	155	diagram IgG B	±	1	G 9.14				
[mg/l]			B 212	-0.19	222	170	274	[Q Alb]			A 3.55				
CSF IgG	+	1	A 35.8	-0.01	35.9	28.7	43.1	diagram IgA B	±	1	A 9.14				
[mg/l]			B 19.7	-0.24	20.7	16.5	24.9	[Q Alb]			A 3.37				
CSF IgA	+	2	A 6.32	0.18	6.02	4.39	7.65	diagram IgM B	±	1	M 9.14				
[mg/l]			B 3.87	0.25	3.62	2.64	4.60	[Q Alb]			A 2.84				
CSF IgM	+	2	A 2.45	-0.47	2.90	1.94	3.86								
[mg/l]			B 1.62	0.07	1.58	1.05	2.11								
S-albumin	+	1	A 44.6	0.06	44.0	35.2	52.8								
[g/l]			B 23.2	-0.36	25.0	20.0	30.0								
S-IgG	+	1	A 10.9	0.05	10.8	8.85	12.8								
[g/l]			B 5.73	-0.31	6.07	4.97	7.17								
S-IgA	+	1	A 2.17	0.14	2.11	1.68	2.54								
[g/l]			B 1.15	-0.21	1.20	0.960	1.44								
S-IgM	+	1	A 1.06	0.40	0.960	0.710	1.21								
[g/l]			B 0.570	0.14	0.550	0.407	0.693								
Q albumin	+	1	A 2.80	0	2.80	2.24	3.36								
[Quot.]			B 9.14	0.13	8.90	7.12	10.7								
Q IgG	+	1	A 3.28	-0.03	3.30	2.64	3.96								
[Quot.]			B 3.55	0.22	3.40	2.72	4.08								
Q IgA	+	2	A 2.91	0.07	2.83	1.69	3.97								
[Quot.]			B 3.37	0.23	3.08	1.84	4.32								
Q IgM	+	2	A 2.31	-0.58	3.01	1.80	4.22								
[Quot.]			B 2.84	-0.13	3.00	1.80	4.20								
Q IgG/Q Alb	+	1	A 1.17	0	1.17	0.854	1.49								
[Quot.]			B 0.380	0	0.380	0.277	0.483								
Q IgA/Q Alb	+	7	A 1.04	0.22	0.953	0.571	1.34								
[Quot.]			B 0.370	0.28	0.332	0.199	0.465								
Q IgM/Q Alb	+	7	A 0.820	-0.45	1.00	0.600	1.40								
[Quot.]			B 0.310	-0.10	0.323	0.193	0.453								
first-look ass.	+	1	A Ch.2		Ch.2	Ch.2	Ch.2								
[ohne]			B Ch.2		Ch.2	Ch.2	Ch.2								
detailed exam.	-	1	A 3,6,7,8,12		3,6,7,8,12,										
[ohne]			B 2,9,12		2,8,12,										