

Ringversuch: **DS3/19**  
im Monat: **August 2019**  
Teilnehmer-Nr.: **0003458**  
ausgestellt am: **10.08.19**



Referenzinstitut für Bioanalytik



Herrn  
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Prof. Dr. C. Knabbe  
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Leitung RfB

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

## Zertifikat

### I. Screening (immunologisch)

Als 'richtig' bewertete Befunde in Probe A und B wurden erhoben für:

- Amphetamin u. ä.
- Barbiturate
- Benzodiazepine
- Cannabinoide
- Cocain + Metabolite
- Methadon + Metabolite
- Opiate
- 6-Acetylmorphin
- Phencyclidin u. Metab.
- Tricycl. Antidepressiva
- Buprenorphin
- Fentanyl
- Tramadol
- Metamphetamin
- Oxycodon

Bonn, 9. September 2019

**Dieses Zertifikat ist gültig bis einschließlich Februar 2020.**



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## Teilnahmebescheinigung

Wir bestätigen Ihnen, dass Sie am Ringversuch für Drogenscreening im Urin teilgenommen haben.

Bonn, 9. September 2019

Die von Ihnen erhobenen Befunde und deren Bewertung sind nachfolgend aufgeführt:

(• = richtig, f = falsch, ? = fehlend, # = falsch positiv)

### I. Screening (immunologisch)

	Probe A		Probe B	
	Befund	Bewertung	Befund	Bewertung
- Amphetamin u. ä.	-	•	-	•
- Barbiturate	+	•	+	•
- Benzodiazepine	+	•	-	•
- Cannabinoide	+	•	-	•
- Cocain + Metabolite	+	•	-	•
- Methadon + Metabolite	+	•	-	•
- Opiate	+	•	-	•
- 6-Acetylmorphin	+	•	-	•
- Phencyclidin u. Metab.	-	•	-	•
- Tricycl. Antidepressiva	-	•	+	•
- Buprenorphin	-	•	-	•
- Fentanyl	-	•	-	•
- Tramadol	-	•	+	•
- Metamphetamin	+	•	-	•
- Oxycodon	-	•	-	•



*C. Knabbe*      *Dr. J. Geilenkeuser*      *A. Kessler*



Drogenscreening DS3/19 - Konzentration der Drogen nach Rekonstitution gem. Einwaage

**Probe A**

3,4-Methylenedioxyamphetamin (MDMA) (115)	2000 µg/l
Pentobarbital (224)	2000 µg/l
Bromazepam (304)	1000 µg/l
THC-Carbonsäure (409)	100 µg/l
Benzoylcegonin (BZE) (501)	1000 µg/l
EDDP (Methadonmetabolit) (701)	1000 µg/l
Methadon (702)	1000 µg/l
6-Acetylmorphin (MAM) (901)	100 µg/l
Morphin (914)	2000 µg/l

**Probe B**

Pentobarbital (224)	2000 µg/l
LSD + Metabolit (601)	100 µg/l
Nortriptylin (1306)	2000 µg/l
Tramadol (1601)	1000 µg/l

**Immunoassay Amphetamin u. ä.**

Probe A + (-)					Probe B -					Probe A + (-)					Probe B -										
Meth.	Herst.	N	n-	n+	n-	n+	Meth.	Herst.	N	n-	n+	n-	n+	Meth.	Herst.	N	n-	n+	n-	n+					
11	2	2	0	2	2	0	111	122	3	3	0	3	0	111	122	3	3	0	3	0					
11	19	2	1	1	2	0	0	111	125	19	19	0	19	0	111	125	19	19	0	19	0				
11	52	1	1	0	1	0	0	111	129	1	1	0	1	0	111	129	1	1	0	1	0				
11	78	8	5	3	7	1	1	111	130	21	21	0	21	0	111	130	21	21	0	21	0				
11	99	4	3	1	4	0	0	111	151	84	83	1	84	0	111	151	84	83	1	84	0				
11	102	1	1	0	1	0	0	111	161	2	2	0	2	0	111	161	2	2	0	2	0				
11	109	4	4	0	4	0	0	111	170	1	1	0	1	0	111	170	1	1	0	1	0				
11	121	2	2	0	2	0	0	111	173	56	54	2	55	0	111	173	56	54	2	55	1				
11	122	1	1	0	1	0	0	111	195	1	1	0	1	0	111	195	1	1	0	1	0				
11	125	1	0	1	1	0	0	111	230	5	5	0	5	0	111	230	5	5	0	5	0				
11	130	3	1	2	2	1	112	2	4	1	3	4	0	112	2	4	1	3	4	0					
11	151	49	8	41	48	1	112	19	1	0	1	1	0	112	19	1	0	1	1	0					
11	161	2	1	1	2	0	112	34	1	0	1	1	0	112	34	1	0	1	1	0					
11	173	12	2	10	12	0	112	38	1	0	1	1	0	112	38	1	0	1	1	0					
11	230	1	2	0	1	0	112	40	2	2	0	2	0	112	40	2	2	0	2	0					
12	4	17	0	17	17	0	112	78	7	5	2	7	0	112	78	7	5	2	7	0					
12	13	3	0	3	3	0	112	99	3	1	2	3	0	112	99	3	1	2	3	0					
12	28	5	1	4	5	0	112	109	3	2	1	3	0	112	109	3	2	1	3	0					
12	30	81	0	81	80	1	112	121	1	0	1	1	0	112	121	1	0	1	1	0					
12	38	29	2	27	29	0	112	122	1	1	0	1	0	112	122	1	1	0	1	0					
12	40	4	2	2	4	0	112	125	4	2	2	4	0	112	125	4	2	2	4	0					
12	43	3	3	0	3	0	112	130	8	2	6	8	0	112	130	8	2	6	8	0					
12	52	1	0	1	1	0	112	151	10	5	5	10	0	112	151	10	5	5	10	0					
12	72	1	0	1	1	0	112	170	1	0	1	1	0	112	170	1	0	1	1	0					
12	121	1	1	0	1	0	112	173	9	6	3	9	0	112	173	9	6	3	9	0					
12	126	56	1	55	56	0	121	13	1	0	1	1	0	121	13	1	0	1	1	0					
12	128	2	1	1	2	0	121	28	2	1	1	2	0	121	28	2	1	1	2	0					
12	228	6	1	5	6	0	121	30	2	0	2	2	0	121	30	2	0	2	2	0					
12	328	3	2	1	3	0	121	38	2	0	2	2	0	121	38	2	0	2	2	0					
14	99	2	1	1	2	0	121	99	1	1	0	1	0	121	99	1	1	0	1	0					
111	2	34	30	4	33	1	121	121	8	8	0	8	0	121	121	8	8	0	8	0					
111	19	2	2	0	2	0	121	126	1	0	1	1	0	121	126	1	0	1	1	0					
111	30	1	0	1	1	0	121	129	1	0	1	1	0	121	129	1	0	1	1	0					
111	34	1	1	0	1	0	121	130	2	2	0	2	0	121	130	2	2	0	2	0					
111	35	1	1	0	1	0	121	151	2	2	0	2	0	121	151	2	2	0	2	0					
111	40	3	3	0	3	0	121	158	2	2	0	2	0	121	158	2	2	0	2	0					
111	52	1	1	0	1	0	121	228	1	1	0	1	0	121	228	1	1	0	1	0					
111	70	1	1	0	1	0	121	328	3	2	1	3	0	121	328	3	2	1	3	0					
111	78	50	47	3	50	0	122	30	2	0	2	2	0	122	30	2	0	2	2	0					
111	99	22	22	0	22	0	122	70	1	1	0	1	0	122	70	1	1	0	1	0					
111	102	2	2	0	2	0	122	102	1	0	1	1	0	122	102	1	0	1	1	0					
111	109	5	5	0	5	0	122	130	1	1	0	1	0	122	130	1	1	0	1	0					
111	121	4	4	0	4	0														insgesamt	713	403	310	710	3

**Immunoassay Barbiturate**

Meth.	Herst.	N	n-	Probe A +		Probe B +		Meth.	Herst.	N	n-	Probe A +		Probe B +			
				n+	n-	n+	n-					n+	n-	n+	n-		
11	2	39	1		38	2		12	4	15	0		15	1		14	
11	19	5	0		5	0		12	13	4	0		4	0		4	
11	28	1	0		1	0		12	28	3	0		3	0		3	
11	34	3	0		3	0		12	30	69	0		69	1		68	
11	40	5	1		4	1		12	38	26	0		26	0		26	
11	52	2	0		2	0		12	40	4	0		4	0		4	
11	70	1	0		1	0		12	43	3	0		3	0		3	
11	78	62	0		62	0		12	70	1	0		1	0		1	
11	99	27	0		27	1		12	72	1	0		1	0		1	
11	102	2	0		2	0		12	102	1	0		1	0		1	
11	109	11	1		10	0		12	121	9	0		9	0		9	
11	121	7	0		7	0		12	125	1	0		1	0		1	
11	122	5	0		5	0		12	126	31	0		31	0		31	
11	125	21	0		21	0		12	129	1	0		1	0		1	
11	129	1	0		1	0		12	130	3	0		3	0		3	
11	130	32	0		32	1		12	151	2	0		2	0		2	
11	151	127	0		127	1		12	158	2	0		2	0		2	
11	161	3	0		3	0		12	228	6	0		6	0		6	
11	170	2	0		2	0		12	328	5	0		5	0		5	
11	173	64	0		64	0		14	99	2	0		2	0		2	
11	195	1	0		1	0											
11	230	5	0		5	0											
								<b>insgesamt</b>	<b>612</b>	<b>3</b>			<b>609</b>	<b>8</b>			<b>604</b>

**Immunoassay Benzodiazepine**

Meth.	Herst.	N	n-	Probe A +		Probe B -		Meth.	Herst.	N	n-	Probe A +		Probe B -			
				n+	n-	n+	n-					n+	n-	n+	n-		
11	2	41	2		39	40		12	4	17	0		17	17		0	
11	19	5	0		5	5		12	13	4	0		4	4		0	
11	34	3	0		3	3		12	28	6	1		5	6		0	
11	40	5	0		5	5		12	30	86	0		86	84		2	
11	52	2	0		2	2		12	38	32	0		32	32		0	
11	70	1	0		1	1		12	40	4	1		3	4		0	
11	78	64	1		63	63		12	43	4	0		4	4		0	
11	99	28	1		27	28		12	70	1	0		1	1		0	
11	102	2	0		2	2		12	72	1	0		1	1		0	
11	109	16	2		14	16		12	102	1	0		1	1		0	
11	121	7	0		7	7		12	121	9	2		7	9		0	
11	122	4	0		4	4		12	126	54	0		54	54		0	
11	125	22	2		20	22		12	128	1	0		1	1		0	
11	129	1	0		1	1		12	129	1	1		0	1		0	
11	130	34	1		33	34		12	130	3	0		3	3		0	
11	151	148	49		99	145		12	151	2	1		1	2		0	
11	161	4	1		3	4		12	158	4	1		3	4		0	
11	170	2	0		2	2		12	228	7	0		7	7		0	
11	173	79	9		70	78		12	328	6	0		6	6		0	
11	195	1	0		1	1		14	99	2	1		1	2		0	
11	230	6	0		6	6											
								<b>insgesamt</b>	<b>717</b>	<b>76</b>			<b>641</b>	<b>712</b>			<b>4</b>

**Immunoassay Cannabinoide**

Meth.	Herst.	N	Probe A +				Probe B -				
			n-	n+	n-	n+	n-	n+			
11	2	41	1	40	40	1					
11	19	5	0	5	5	0					
11	34	3	0	3	3	0					
11	40	5	0	5	5	0					
11	52	2	0	2	2	0					
11	70	1	0	1	1	0					
11	78	65	0	65	64	1					
11	99	31	1	30	30	1					
11	102	3	1	2	3	0					
11	109	16	0	16	16	0					
11	121	7	0	7	7	0					
11	122	5	0	5	5	0					
11	125	24	1	23	24	0					
11	129	1	0	1	1	0					
11	130	35	0	35	35	0					
11	151	150	0	150	148	1					
11	161	4	1	3	4	0					
11	170	2	0	2	2	0					
11	173	79	1	78	78	1					
11	195	1	0	1	1	0					
11	230	7	0	7	7	0					
12	4	19	1	18	19	0					
<b>insgesamt</b>			<b>734</b>	<b>10</b>	<b>724</b>	<b>730</b>	<b>3</b>				<b>3</b>

**Immunoassay Cocain + Metabolite**

Meth.	Herst.	N	Probe A +				Probe B -				
			n-	n+	n-	n+	n-	n+			
11	2	41	1	40	40	1					
11	19	5	0	5	5	0					
11	34	3	0	3	3	0					
11	40	5	0	5	5	0					
11	52	2	0	2	2	0					
11	70	1	0	1	1	0					
11	78	67	0	67	66	1					
11	99	29	0	29	29	0					
11	102	3	0	3	3	0					
11	109	16	0	16	16	0					
11	121	7	0	7	7	0					
11	122	5	0	5	5	0					
11	125	24	0	24	24	0					
11	129	1	0	1	1	0					
11	130	35	0	35	35	0					
11	151	149	1	148	147	1					
11	161	4	0	4	4	0					
11	170	2	0	2	2	0					
11	173	79	1	78	78	1					
11	195	1	0	1	1	0					
11	230	7	0	7	7	0					
12	4	19	0	19	19	0					
<b>insgesamt</b>			<b>730</b>	<b>5</b>	<b>725</b>	<b>727</b>	<b>2</b>				<b>2</b>

**Immunoassay LSD + Metabolite**

Meth.	Herst.	N	Probe A -				Probe B +				
			n-	n+	n-	n+	n-	n+			
11	99	2	1	1	2	0					
11	151	2	2	0	0	0					
11	173	3	2	1	1	2					
12	28	1	1	0	0	1					
12	30	5	5	0	0	5					
<b>insgesamt</b>			<b>31</b>	<b>29</b>	<b>2</b>	<b>4</b>	<b>27</b>				<b>27</b>

**Immunoassay Methadon + Metabolite**

Meth.	Herst.	N	n-	Probe A +		Probe B -		n+	Meth.	Herst.	N	n-	Probe A +		Probe B -		n+						
				n+	n-	n+	n-						n+	n-									
11	2	39	1		38	38		1	12	4	14	0		14	14		0						
11	19	5	0		5	5		0	12	13	2	0		2	2		0						
11	34	2	0		2	2		0	12	28	4	0		4	4		0						
11	37	1	0		1	1		0	12	30	57	0		57	56		1						
11	40	1	0		1	1		0	12	38	32	0		32	32		0						
11	52	2	0		2	2		0	12	40	4	0		4	4		0						
11	70	1	0		1	1		0	12	43	3	0		3	3		0						
11	78	63	0		63	61		2	12	52	1	0		1	1		0						
11	99	31	1		30	31		0	12	70	1	0		1	1		0						
11	102	2	0		2	2		0	12	72	1	0		1	1		0						
11	109	10	0		10	10		0	12	99	2	0		2	2		0						
11	121	7	0		7	7		0	12	102	1	0		1	1		0						
11	122	5	0		5	5		0	12	121	9	0		9	9		0						
11	125	24	0		24	24		0	12	126	54	0		54	54		0						
11	129	1	0		1	1		0	12	129	1	0		1	1		0						
11	130	34	0		34	34		0	12	130	3	0		3	3		0						
11	151	139	1		138	136		2	12	151	3	0		3	3		0						
11	161	4	0		4	4		0	12	158	2	0		2	2		0						
11	170	3	0		3	3		0	12	228	7	0		7	7		0						
11	173	73	2		71	72		1	12	328	4	0		4	4		0						
11	195	1	0		1	1		0	14	99	2	1		1	2		0						
11	230	6	0		6	6		0	<b>insgesamt</b>								658	6		652	653		4

**Immunoassay Methaqualon u. Metab.**

Meth.	Herst.	N	n-	Probe A -		Probe B -		n+	Meth.	Herst.	N	n-	Probe A -		Probe B -		n+						
				n+	n-	n+	n-						n+	n-									
9	99	1	1		0	1		0	12	4	1	1		0	1		0						
11	99	1	1		0	1		0	12	30	2	2		0	2		0						
11	125	1	1		0	1		0	12	126	3	3		0	3		0						
11	151	2	2		0	2		0	14	99	1	1		0	1		0						
11	173	1	0		1	1		0	<b>insgesamt</b>								13	12		1	13		0





**Immunoassay Propoxyphen u. Metab.**

Meth.	Herst.	N	Probe A -		Probe B -	
			n-	n+	n-	n+
9	99	1	1	0	1	0
11	122	1	1	0	1	0
11	125	1	1	0	1	0
11	151	2	2	0	2	0
<b>insgesamt</b>						
		11	11	0	11	0

Meth.	Herst.	N	Probe A -		Probe B -	
			n-	n+	n-	n+
12	30	2	2	0	2	0
12	126	3	3	0	3	0
14	99	1	1	0	1	0
<b>insgesamt</b>						
		11	11	0	11	0

**Immunoassay Tricycl. Antidepressiva**

Meth.	Herst.	N	Probe A -		Probe B +	
			n-	n+	n-	n+
11	1	1	1	0	0	1
11	2	37	36	1	1	36
11	19	5	5	0	0	5
11	28	1	1	0	0	1
11	34	3	3	0	0	3
11	40	5	5	0	0	5
11	52	1	1	0	0	1
11	70	1	1	0	0	1
11	78	65	64	1	0	65
11	99	32	32	0	0	32
11	102	2	2	0	0	2
11	109	11	11	0	0	11
11	121	9	9	0	0	9
11	122	6	6	0	0	6
11	125	25	25	0	0	25
11	130	34	33	1	1	33
11	151	128	127	1	5	123
11	161	2	2	0	1	1
11	170	2	2	0	0	2
<b>insgesamt</b>						
		485	481	4	9	476

Meth.	Herst.	N	Probe A -		Probe B +	
			n-	n+	n-	n+
11	173	65	63	2	1	64
11	230	5	5	0	0	5
12	4	3	3	0	0	3
12	28	3	2	1	0	3
12	30	1	1	0	0	1
12	38	3	3	0	0	3
12	40	1	1	0	0	1
12	70	1	1	0	0	1
12	72	1	1	0	0	1
12	102	1	1	0	0	1
12	121	8	8	0	0	8
12	126	18	18	0	0	18
12	129	1	1	0	0	1
12	130	3	3	0	0	3
12	151	2	2	0	0	2
12	228	1	1	0	0	1
14	99	1	1	0	0	1
<b>insgesamt</b>						
		485	481	4	9	476

**Immunoassay Buprenorphin**

Meth.	Herst.	N	Probe A -		Probe B -	
			n-	n+	n-	n+
11	2	2	2	0	2	0
11	34	1	1	0	1	0
11	52	2	2	0	2	0
11	78	11	11	0	11	0
11	99	7	7	0	7	0
11	109	7	6	1	7	0
11	121	2	2	0	2	0
11	122	4	4	0	4	0
11	125	1	1	0	1	0
11	129	1	1	0	1	0
11	130	5	5	0	5	0
11	151	80	79	1	78	2
11	161	3	3	0	3	0
11	170	3	3	0	3	0
11	173	39	38	1	38	1
11	195	1	1	0	1	0
11	230	1	1	0	0	1
12	4	2	2	0	2	0
<b>insgesamt</b>						
		272	270	2	269	3

Meth.	Herst.	N	Probe A -		Probe B -	
			n-	n+	n-	n+
12	28	2	2	0	2	0
12	30	7	7	0	7	0
12	38	7	7	0	7	0
12	40	2	2	0	2	0
12	43	2	2	0	2	0
12	48	1	1	0	1	0
12	99	7	7	0	7	0
12	102	1	1	0	1	0
12	126	52	52	0	52	0
12	130	2	2	0	2	0
12	151	3	3	0	3	0
12	158	10	10	0	10	0
12	228	1	1	0	1	0
12	328	1	1	0	1	0
14	99	2	2	0	2	0
14	102	1	1	0	1	0
<b>insgesamt</b>						
		272	270	2	269	3

**Immunoassay Fentanyl**

Meth.	Herst.	N	Probe A -		Probe B -	
			n-	n+	n-	n+
11	99	1	1	0	1	0
11	122	1	1	0	1	0
11	125	1	1	0	1	0
11	151	7	7	0	7	0
11	161	1	1	0	1	0
11	170	1	1	0	1	0
11	173	3	3	0	1	2
11	230	1	1	0	0	1
12	30	1	1	0	1	0
<b>insgesamt</b>						
		34	34	0	31	3

Meth.	Herst.	N	Probe A -		Probe B -	
			n-	n+	n-	n+
12	48	1	1	0	1	0
12	99	2	2	0	2	0
12	126	6	6	0	6	0
12	130	1	1	0	1	0
12	151	1	1	0	1	0
12	158	3	3	0	3	0
14	99	3	3	0	3	0
<b>insgesamt</b>						
		34	34	0	31	3

**Immunoassay Tramadol**

Meth.	Herst.	N	Probe A -		Probe B +	
			n-	n+	n-	n+
11	99	5	5	0	0	5
11	122	1	1	0	0	1
11	125	2	2	0	0	2
11	151	9	9	0	0	9
11	161	2	2	0	0	2
11	170	1	1	0	0	1
11	173	9	8	1	1	8

Meth.	Herst.	N	Probe A -		Probe B +	
			n-	n+	n-	n+
11	230	1	1	0	0	1
12	99	1	1	0	0	1
12	126	3	3	0	0	3
12	130	1	1	0	0	1
12	158	4	3	1	1	3
14	99	3	3	0	0	3
<b>insgesamt</b>		<b>42</b>	<b>40</b>	<b>2</b>	<b>2</b>	<b>40</b>

**Immunoassay Metamphetamin**

Meth.	Herst.	N	Probe A *		Probe B -	
			n-	n+	n-	n+
11	2	39	4	35	38	1
11	19	5	3	2	5	0
11	28	1	1	0	1	0
11	34	2	1	1	2	0
11	40	5	0	5	5	0
11	52	2	1	1	2	0
11	78	65	11	54	65	0
11	99	38	13	25	37	1
11	102	3	1	2	3	0
11	109	16	3	13	16	0
11	121	6	1	5	6	0
11	122	5	1	4	5	0
11	125	24	5	19	24	0
11	129	1	0	1	1	0
11	130	32	2	30	32	0
11	151	125	28	97	122	1
11	161	2	1	1	2	0
11	170	2	0	2	2	0
11	173	73	15	58	72	1

Meth.	Herst.	N	Probe A *		Probe B -	
			n-	n+	n-	n+
11	195	1	0	1	1	0
11	230	6	0	6	6	0
12	30	1	0	1	1	0
12	40	1	1	0	1	0
12	43	2	1	1	2	0
12	70	1	0	1	1	0
12	99	2	1	1	2	0
12	102	1	0	1	1	0
12	121	9	0	9	9	0
12	126	5	0	5	5	0
12	129	1	1	0	1	0
12	130	3	0	3	3	0
12	151	2	0	2	2	0
12	158	3	0	3	3	0
12	228	1	1	0	1	0
12	328	2	0	2	2	0
14	99	4	4	0	4	0
<b>insgesamt</b>		<b>490</b>	<b>100</b>	<b>390</b>	<b>485</b>	<b>3</b>

**Immunoassay Oxycodon**

Meth.	Herst.	N	Probe A -		Probe B -	
			n-	n+	n-	n+
11	2	23	22	1	22	1
11	52	1	0	1	1	0
11	78	1	1	0	1	0
11	99	2	2	0	2	0
11	125	2	2	0	2	0
11	151	7	7	0	7	0
11	170	1	1	0	1	0
11	173	7	7	0	7	0

Meth.	Herst.	N	Probe A -		Probe B -	
			n-	n+	n-	n+
11	195	1	1	0	1	0
12	30	2	2	0	2	0
12	123	1	1	0	1	0
12	126	4	4	0	4	0
12	158	2	2	0	2	0
14	99	3	3	0	3	0
<b>insgesamt</b>		<b>57</b>	<b>55</b>	<b>2</b>	<b>56</b>	<b>1</b>

