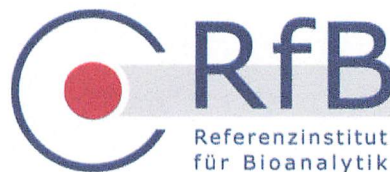


Ringversuch: DS4/23  
im Monat: November 2023  
Teilnehmer-Nr.: 0003458  
ausgestellt am: 11.11.23



Referenzinstitut für Bioanalytik

LFM Diagnostika  
Franz Lukas  
Spessartstr. 9  
97082 Würzburg



Ringversuchsleiter

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

Leitung RfB

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
- Methylphenidat
- Opiate
- 6-Acetylmorphin
- Phencyclidin u. Metab.
- Pregabalin
- Tricycl. Antidepressiva
- Buprenorphin
- Fentanyl
- Tramadol
- Methamphetamin
- Oxycodon

Bonn, 19. Dezember 2023

*C. Knabbe*      *A. Kessler*      *Anna Bode*

Dieses Zertifikat ist gemäss aktueller Version der RiliBÄK gültig bis einschließlich Mai 2024.

Ringversuch: DS4/23  
 im Monat: November 2023  
 Teilnehmer-Nr.: 0003458  
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Leitung RfB

Dr. A. Kessler

## Teilnahmebescheinigung

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

Bonn, 19. Dezember 2023

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	-	●	-	●
- Methylphenidat	-	●	-	●
- Opiate	-	●	-	●
- 6-Acetylmorphin	-	●	-	●
- Phencyclidin u. Metab.	-	●	-	●
- Pregabalin	-	●	-	●
- Tricycl. Antidepressiva	+	●	+	●
- Buprenorphin	-	●	-	●
- Fentanyl	-	●	-	●
- Tramadol	-	●	-	●
- Methamphetamin	+	●	-	●
- Oxycodon	-	●	-	●

*C. Knabbe*

*A. Kessler*

*Anna Bock*

Drogenscreening DS4/23 - Konzentration der Drogen nach Rekonstitution gem. Einwaage

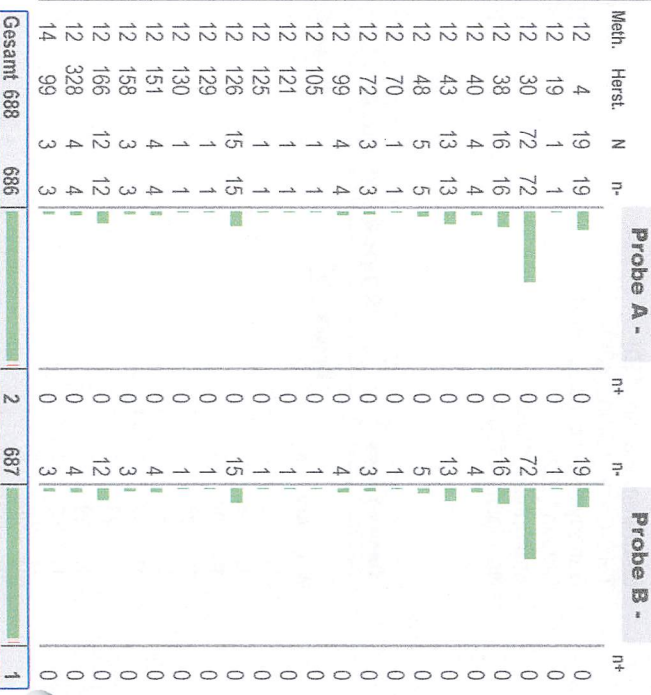
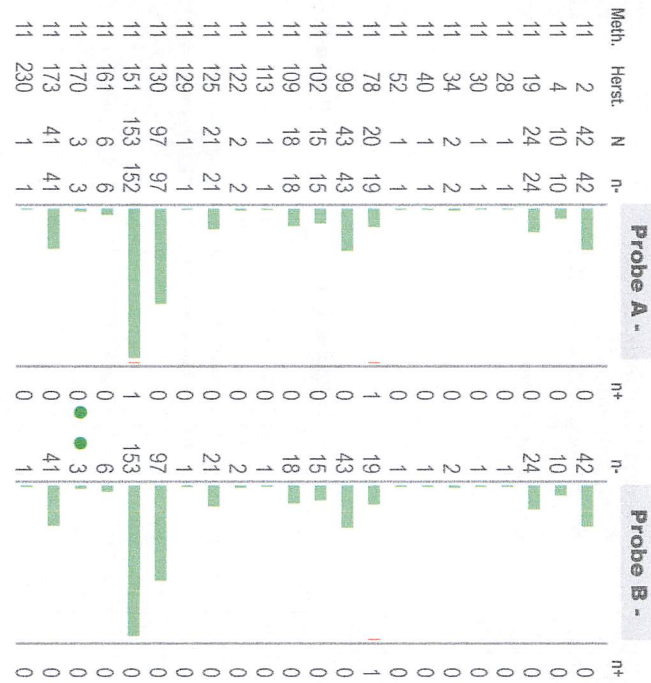
Probe A				Probe B			
Methamphetamin (110)		1000 µg/l		7-Amino-Flunitrazepam (302)		500 µg/l	
THC-Carbonsäure (409)		100 µg/l		Flunitrazepam (321)		500 µg/l	
Benzoyllecgonin (BZE) (501)		1000 µg/l		Benzoyllecgonin (BZE) (501)		1000 µg/l	
Cocain (502)		1000 µg/l		Cocain (502)		1000 µg/l	
Amitriptylin (1301)		1000 µg/l		Imipramin (1305)		2000 µg/l	
Nortriptylin (1306)		1000 µg/l					

Immunoassay Amphetamin u. ä.															
				Probe A +				Probe B -							
Meth.	Herst.	N	n-	n+	n-	n+		Meth.	Herst.	N	n-	n+	n-	n+	
11	2	4	3	1	4	0	0	111	125	21	21	0	21	0	
11	4	1	1	0	1	0	0	111	129	1	1	0	1	0	
11	19	3	2	1	3	0	0	111	130	68	67	1	68	0	
11	28	1	1	0	1	0	0	111	151	101	100	1	100	1	
11	30	1	1	0	1	0	0	111	161	2	2	0	2	0	
11	52	1	1	0	1	0	0	111	170	1	1	0	1	0	
11	78	1	1	0	1	0	0	111	173	42	40	2	42	0	
11	99	7	7	0	7	0	0	111	230	1	1	0	1	0	
11	102	4	1	3	4	0	0	112	2	7	7	0	7	0	
11	109	3	3	0	3	0	0	112	4	2	2	0	2	0	
11	111	2	2	0	2	0	0	112	19	6	6	0	6	0	
11	112	1	1	0	1	0	0	112	78	4	4	0	4	0	
11	113	1	1	0	1	0	0	112	99	10	10	0	10	0	
11	122	1	1	0	1	0	0	112	102	5	5	0	5	0	
11	125	1	1	0	1	0	0	112	105	1	1	0	1	0	
11	130	20	11	9	20	0	0	112	109	4	4	0	4	0	
11	151	64	25	39	64	0	0	112	125	5	5	0	5	0	
11	161	3	1	2	3	0	0	112	130	11	11	0	11	0	
11	173	6	3	3	6	0	0	112	151	13	13	0	13	0	
12	4	20	0	20	20	0	0	112	161	2	2	0	2	0	
12	28	2	0	2	2	0	0	112	170	2	2	0	2	0	
12	30	85	6	79	85	0	0	112	173	7	7	0	7	0	
12	38	16	1	15	16	0	0	121	4	1	1	0	1	0	
12	40	2	0	2	2	0	0	121	19	1	1	0	1	0	
12	43	7	0	7	7	0	0	121	30	3	0	3	3	0	
12	48	7	1	6	7	0	0	121	38	5	1	4	5	0	
12	72	4	1	3	4	0	0	121	40	3	0	3	3	0	
12	99	3	0	3	3	0	0	121	43	4	0	4	4	0	
12	126	32	0	32	32	0	0	121	99	1	1	0	1	0	
12	151	1	1	0	1	0	0	121	121	1	1	0	1	0	
12	158	1	1	0	1	0	0	121	126	2	0	2	2	0	
12	166	3	3	0	3	0	0	121	151	3	3	0	3	0	
12	328	3	0	3	3	0	0	121	158	9	9	0	9	0	
14	99	2	1	1	2	0	0	121	166	8	8	0	8	0	
14	126	1	0	1	1	0	0	121	328	2	0	2	2	0	
111	2	31	31	0	31	0	0	122	30	1	0	1	1	0	
111	4	7	7	0	7	0	0	122	34	1	1	0	1	0	
111	19	14	14	0	14	0	0	122	43	2	0	2	2	0	
111	30	1	0	1	1	0	0	122	70	1	1	0	1	0	
111	35	1	1	0	1	0	0	122	129	1	1	0	1	0	
111	40	1	1	0	1	0	0	122	130	1	1	0	1	0	
111	78	16	15	1	15	1	1	122	151	1	1	0	1	0	
111	99	30	30	0	30	0	0	122	158	1	1	0	1	0	
111	102	7	7	0	7	0	0	122	166	1	1	0	1	0	
111	109	11	10	1	11	0	0	141	19	1	1	0	1	0	
111	122	1	1	0	1	0	0								
				<b>Gesamt 804 89/455</b>								<b>260 802</b>			

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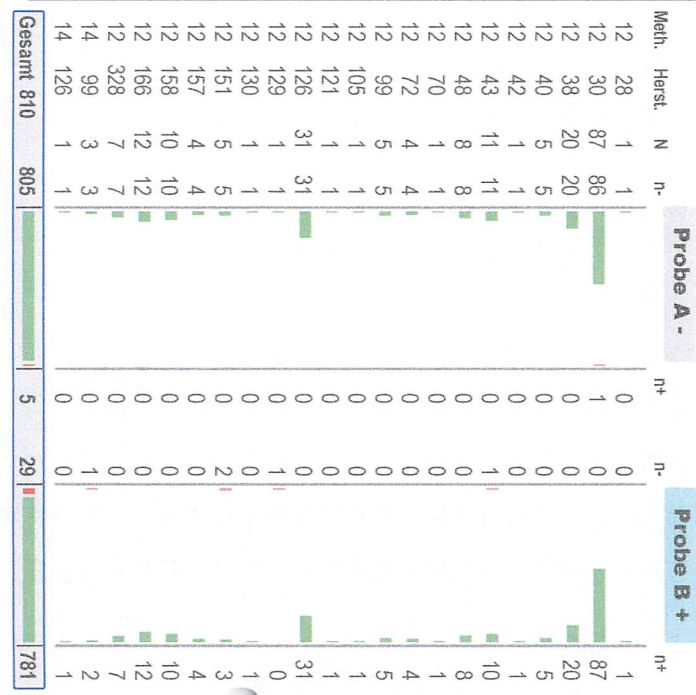
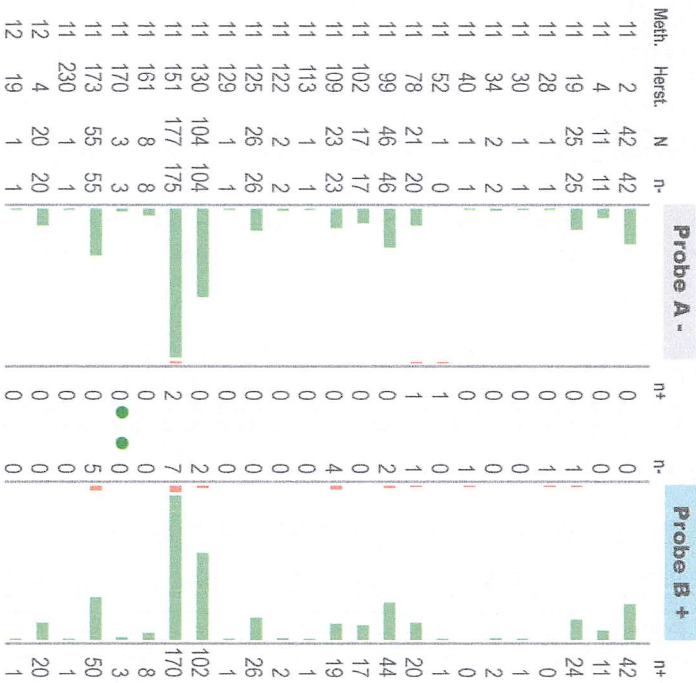
Immunoassay

Barbiturate



Immunoassay

Benzodiazepine



**Immunoassay Cannabinoide**

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	43	0		43	43		0	12	4	26	1		25	26		0
11	4	10	0		10	10		0	12	19	1	0		1	1		0
11	19	25	0		25	25		0	12	28	2	0		2	2		0
11	28	1	0		1	1		0	12	30	91	0		91	91		0
11	30	1	0		1	1		0	12	38	20	0		20	20		0
11	34	2	0		2	2		0	12	40	5	0		5	5		0
11	40	1	0		1	1		0	12	43	13	0		13	13		0
11	52	1	0		1	1		0	12	48	5	0		5	5		0
11	78	21	1		20	20		1	12	70	1	0		1	1		0
11	99	47	3		44	46		1	12	72	3	0		3	3		0
11	102	18	0		18	18		0	12	99	6	0		6	6		0
11	109	23	0		23	23		0	12	105	1	0		1	1		0
11	113	1	0		1	1		0	12	121	1	0		1	1		0
11	122	2	0		2	2		0	12	126	31	0		31	31		0
11	125	28	0		28	28		0	12	129	2	0		2	2		0
11	129	1	0		1	1		0	12	130	1	0		1	1		0
11	130	107	1		106	106		1	12	151	5	0		5	5		0
11	151	180	2		178	179		1	12	158	14	1		13	14		0
11	161	9	1		8	9		0	12	166	12	1		11	11		1
11	170	3	0		3	3		0	12	328	7	0		7	7		0
11	173	53	1		52	51		2	14	99	3	0		3	3		0
11	174	1	0		1	1		0	14	126	1	0		1	1		0
11	230	1	0		1	1		0	<b>Gesamt</b>		<b>830</b>	<b>12</b>		<b>818</b>	<b>823</b>		<b>7</b>

**Immunoassay Cocain + 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	43	0		43	1		42	12	19	1	0		1	0		1			
11	4	10	0		10	0		10	12	28	1	0		1	0		1			
11	19	25	0		25	1		24	12	30	87	0		87	0		87			
11	28	1	0		1	0		1	12	38	20	0		20	0		20			
11	30	1	0		1	0		1	12	40	5	0		5	0		5			
11	34	2	0		2	0		2	12	43	13	0		13	0		13			
11	40	1	0		1	0		1	12	48	5	0		5	0		5			
11	52	1	0		1	0		1	12	70	1	0		1	0		1			
11	78	21	2		19	1		20	12	72	3	0		3	0		3			
11	99	47	0		47	0		47	12	99	5	0		5	0		5			
11	102	17	0		17	0		17	12	105	1	0		1	0		1			
11	109	23	0		23	0		23	12	121	1	0		1	0		1			
11	113	1	0		1	0		1	12	126	32	0		32	0		32			
11	122	2	0		2	0		2	12	129	1	0		1	0		1			
11	125	28	0		28	0		28	12	130	1	0		1	0		1			
11	129	1	0		1	0		1	12	151	5	0		5	1		4			
11	130	107	2		105	0		107	12	158	13	0		13	0		13			
11	151	179	1		178	2		177	12	166	12	0		12	0		12			
11	161	9	0		9	0		9	12	328	6	0		6	0		6			
11	170	3	0		3	0		3	14	99	3	0		3	0		3			
11	173	55	0		55	1		54	14	126	1	0		1	0		1			
11	230	1	0		1	0		1	<b>Gesamt</b>		<b>821</b>	<b>5</b>		<b>816</b>	<b>7</b>		<b>814</b>			
12	4	26	0		26	0		26												

**Immunoassay LSD + 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	99	6	6		0	6		0	12	40	1	1		0	1		0			
11	102	2	2		0	2		0	12	72	1	1		0	1		0			
11	125	2	2		0	2		0	12	99	1	1		0	1		0			
11	130	2	2		0	2		0	12	126	6	6		0	6		0			
11	151	2	2		0	2		0	14	99	1	1		0	1		0			
11	173	1	1		0	1		0	14	162	1	1		0	1		0			
12	30	6	6		0	6		0	<b>Gesamt</b>		<b>33</b>	<b>33</b>		<b>0</b>	<b>33</b>		<b>0</b>			
12	38	1	1		0	1		0												

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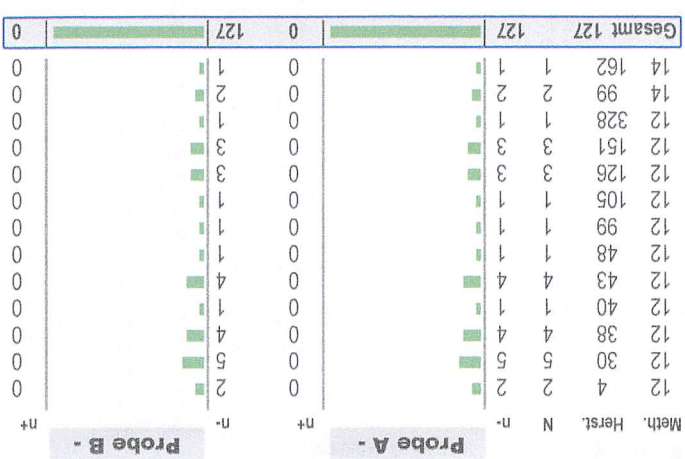
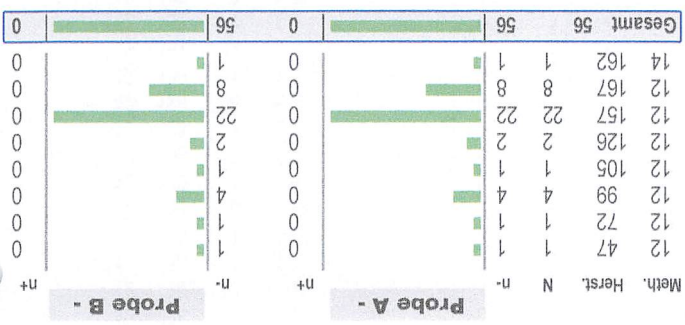
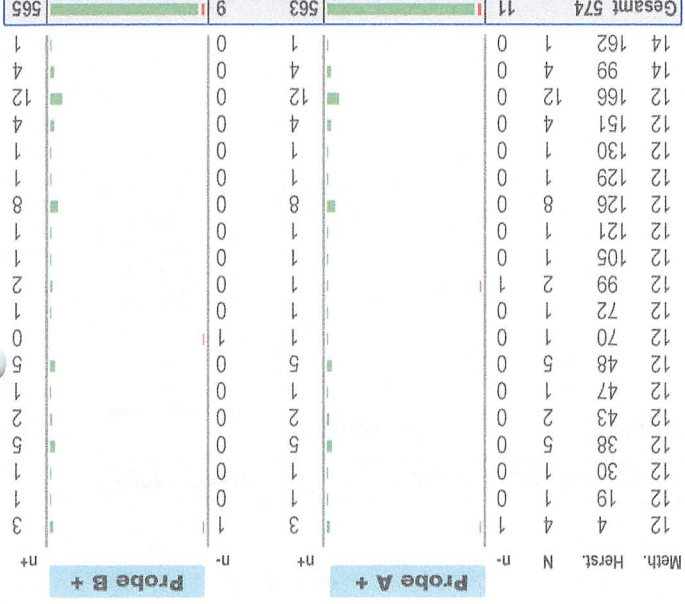
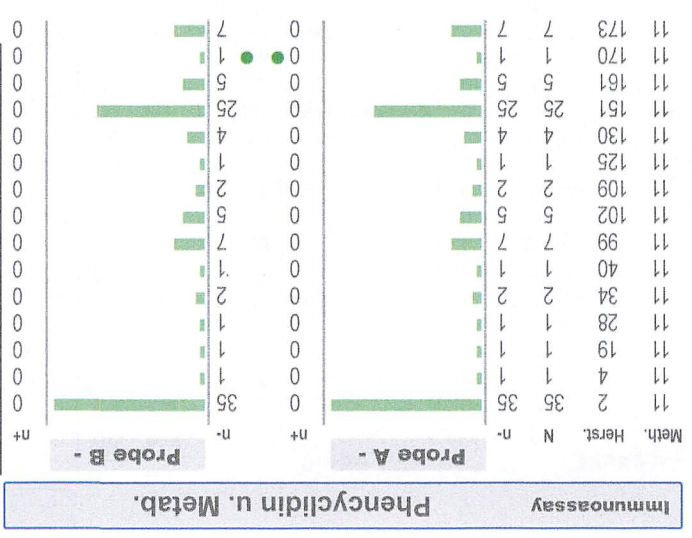
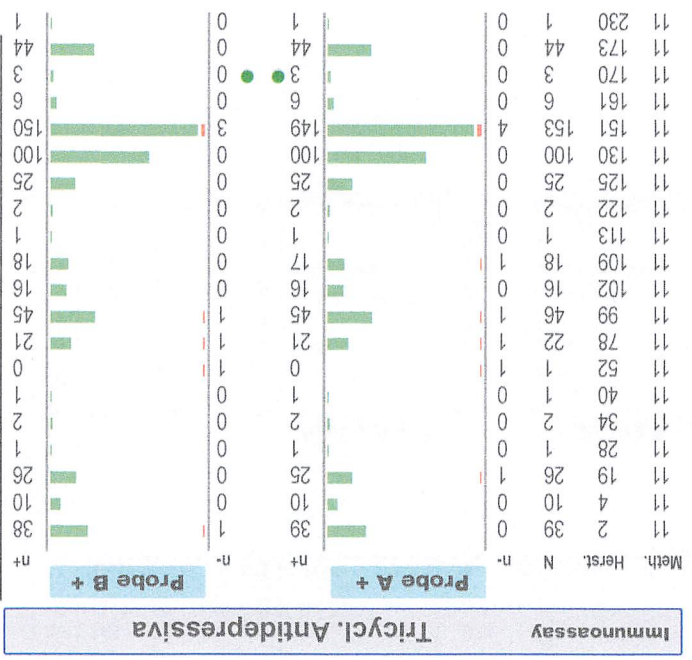
**Immunoassay Opiate**

				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	6	6	0	5	1	113	4	7	7	0	7	0	0	19	15	15	0	15	0	0
11	4	3	3	0	3	0	113	40	1	1	0	1	0	113	78	17	16	1	16	1	1
11	19	9	9	0	9	0	113	99	33	33	0	33	0	113	102	11	11	0	11	0	0
11	28	1	1	0	1	0	113	109	21	20	1	21	0	113	122	1	1	0	1	0	0
11	34	2	2	0	2	0	113	125	28	28	0	28	0	113	129	1	1	0	1	0	0
11	52	1	1	0	1	0	113	130	80	80	0	80	0	113	151	151	151	0	151	0	0
11	78	4	4	0	4	0	113	161	5	5	0	5	0	113	170	3	3	0	3	0	0
11	99	13	13	0	13	0	113	173	47	47	0	47	0	123	4	20	20	0	20	0	0
11	102	6	6	0	6	0	123	28	1	1	0	1	0	123	30	77	77	0	77	0	0
11	109	2	2	0	2	0	123	38	19	19	0	19	0	123	40	4	4	0	4	0	0
11	113	2	2	0	2	0	123	43	7	7	0	7	0	123	48	5	5	0	5	0	0
11	122	1	1	0	1	0	123	48	5	5	0	5	0	123	72	3	3	0	3	0	0
11	130	25	25	0	25	0	123	99	2	2	0	2	0	123	105	1	1	0	1	0	0
11	151	28	28	0	28	0	123	121	1	1	0	1	0	123	123	1	1	0	1	0	0
11	161	5	5	0	5	0	123	126	26	26	0	26	0	123	129	1	1	0	1	0	0
11	173	7	6	1	6	1	123	151	4	3	1	3	1	123	158	13	13	0	13	0	0
11	230	1	1	0	1	0	123	166	5	5	0	5	0	123	166	5	5	0	5	0	0
12	4	6	6	0	6	0	123	328	4	4	0	4	0	123	328	4	4	0	4	0	0
12	19	1	1	0	1	0	143	99	1	1	0	1	0	143	19	1	1	0	1	0	0
12	28	1	1	0	1	0	143	99	2	2	0	2	0	143	99	2	2	0	2	0	0
12	30	13	12	1	12	1	<b>Gesamt 826</b>				<b>821</b>	<b>5</b>	<b>821</b>	<b>5</b>							
12	38	1	1	0	1	0															
12	40	1	1	0	1	0															
12	43	6	6	0	6	0															
12	70	1	1	0	1	0															
12	99	3	3	0	3	0															
12	123	2	2	0	2	0															
12	126	5	5	0	5	0															
12	130	1	1	0	1	0															
12	151	2	2	0	2	0															
12	158	1	1	0	1	0															
12	166	7	7	0	7	0															
12	328	2	2	0	2	0															
14	99	1	1	0	1	0															
14	126	1	1	0	1	0															
113	2	37	37	0	37	0															

**Immunoassay 6-Acetylmorphin**

				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	4	1	1	0	1	0	12	38	2	2	0	2	0	12	99	3	3	0	3	0	0
11	40	1	1	0	1	0	12	105	1	1	0	1	0	12	126	6	6	0	6	0	0
11	99	1	1	0	1	0	12	158	9	9	0	9	0	14	162	1	1	0	1	0	0
11	102	1	1	0	1	0	<b>Gesamt 35</b>				<b>35</b>	<b>0</b>	<b>35</b>	<b>0</b>							
11	109	1	1	0	1	0															
11	130	1	1	0	1	0															
11	151	3	3	0	3	0															
11	170	3	3	0	3	0															

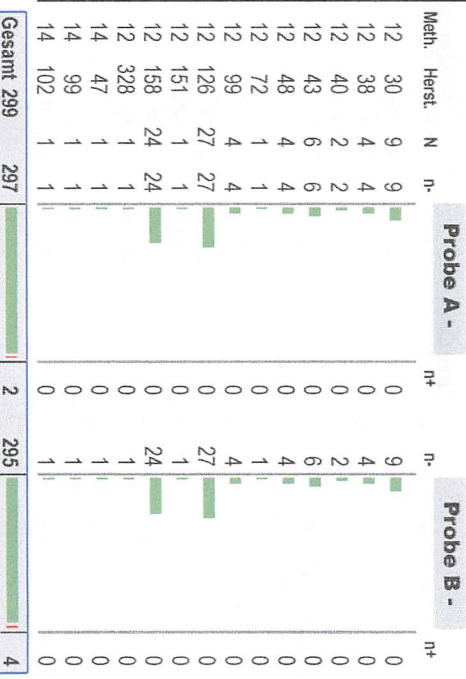
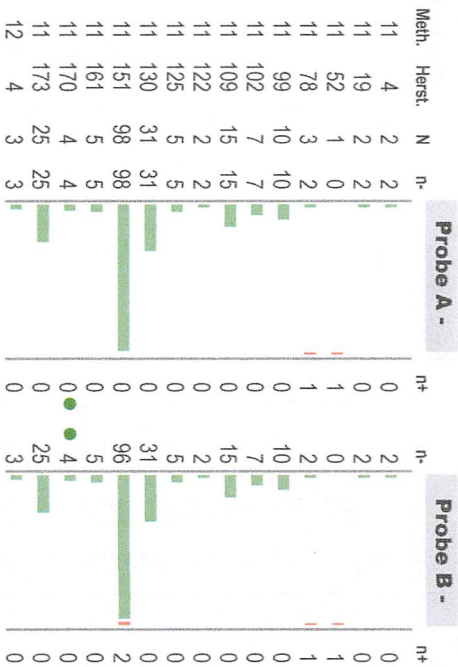
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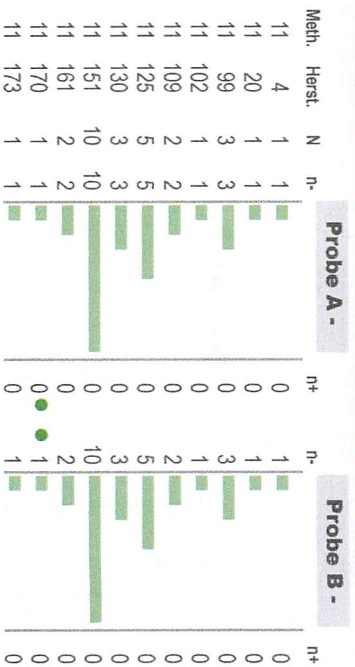
**Immunoassay**

**Buprenorphin**



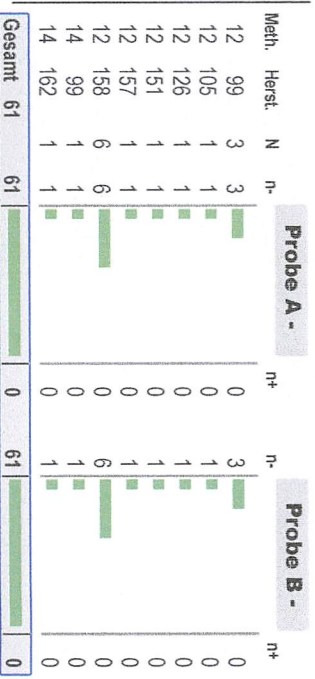
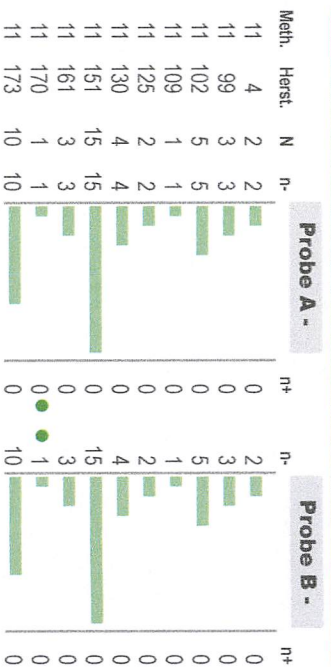
**Immunoassay**

**Fentanyl**



**Immunoassay**

**Tramadol**



Immunoassay

Methamphetamin

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	42	3		39	41		1	11	173	53	5		48	52		1				
11	4	10	0		10	10		0	11	230	1	0		1	1		0				
11	19	26	2		24	26		0	12	19	1	0		1	1		0				
11	28	1	0		1	1		0	12	30	1	0		1	1		0				
11	34	1	0		1	1		0	12	43	1	0		1	1		0				
11	40	1	0		1	1		0	12	48	1	0		1	1		0				
11	52	1	0		1	1		0	12	70	1	0		1	1		0				
11	78	23	2		21	22		1	12	99	2	0		2	2		0				
11	99	44	3		41	43		1	12	105	1	0		1	1		0				
11	102	17	0		17	17		0	12	121	1	0		1	1		0				
11	109	23	3		20	23		0	12	126	1	0		1	1		0				
11	113	1	0		1	1		0	12	129	1	0		1	1		0				
11	122	2	0		2	2		0	12	130	1	0		1	1		0				
11	125	26	0		26	26		0	12	151	5	0		5	5		0				
11	129	1	0		1	1		0	12	158	13	0		13	13		0				
11	130	99	5		94	98		1	12	166	12	0		12	12		0				
11	151	161	10		151	161		0	14	99	3	0		3	3		0				
11	161	6	1		5	6		0	14	162	1	0		1	1		0				
11	170	3	0		3	3		0	<b>Gesamt 590</b>									<b>35</b>	<b>555</b>	<b>584</b>	<b>5</b>

Immunoassay

Oxycodon

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	31	31		0	31		0	12	30	3	3		0	3		0					
11	52	1	1		0	1		0	12	38	1	1		0	1		0					
11	99	4	4		0	4		0	12	48	1	1		0	1		0					
11	102	1	1		0	1		0	12	99	2	2		0	2		0					
11	109	1	1		0	1		0	12	126	1	1		0	1		0					
11	125	2	2		0	2		0	12	158	2	2		0	2		0					
11	130	5	5		0	5		0	14	99	1	1		0	1		0					
11	151	7	7		0	7		0	14	162	1	1		0	1		0					
11	170	1	1		0	1		0	<b>Gesamt 73</b>									<b>72</b>	<b>1</b>	<b>73</b>	<b>0</b>	
11	173	7	6		1	7		0														

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