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**Tab. B1** Drug recoveries [%] from laboratory plastics. Relative standard deviations (RSDs) [%] given in brackets, drugs arranged by increasing retention time, n=4.

substance	15 mL Falcon tube	5 mL syringe	10 mL syringe	2 mL Eppendorf tube
meldonium	92.4 (3.8)	99.6 (0.7)	100.3 (1.0)	100.6 (1.3)
psilocybin	98.5 (1.1)	99.2 (0.6)	100.8 (0.8)	99.1 (1.2)
morphine	110.8 (3.2)	101.7 (2.9)	105.6 (2.5)	100.5 (2.3)
salbutamol	103.2 (0.7)	100.3 (1.1)	101.5 (1.2)	99.7 (1.4)
terbutaline	105.3 (1.5)	101.2 (1.5)	100.5 (1.2)	100.3 (0.7)
atenolol	97.3 (8.6)	97.4 (7.6)	102.5 (3.8)	110.0 (6.7)
fenoterol	108.8 (1.7)	99.4 (1.4)	97.6 (0.8)	99.3 (0.8)
nikethamide	103.0 (1.0)	99.6 (1.7)	99.8 (0.9)	100.7 (0.9)
carteolol	96.3 (9.2)	98.1 (9.1)	104.2 (3.5)	110.3 (7.5)
oxycodone	101.3 (11.4)	97.9 (9.0)	102.3 (2.4)	117.3 (9.7)
amphetamine	101.9 (3.5)	101.1 (4.5)	104.2 (3.8)	103.0 (5.0)
chlorothiazide	99.5 (0.8)	100.2 (0.7)	102.1 (0.9)	98.6 (0.9)
hydrocodone	114.5 (16.7)	101.5 (12.8)	106.3 (6.5)	118.7 (13.1)
methamphetamine	96.5 (12.2)	101.6 (9.9)	105.7 (7.3)	113.1 (11.6)
methylhexanamine	101.6 (5.8)	101.9 (5.7)	104.1 (4.3)	104.1 (7.1)
MDMA	94.3 (11.7)	101.2 (10.7)	103.4 (7.0)	114.9 (12.9)
hydrochlorothiazide	100.7 (3.1)	100.8 (4.3)	103.4 (3.7)	99.7 (1.8)
strychnine	111.6 (22.4)	100.9 (13.2)	104.8 (7.4)	122.7 (18.3)
ketamine	105.6 (2.7)	100.3 (2.4)	103.3 (0.8)	100.4 (2.6)
metoprolol	96.4 (10.4)	97.3 (9.1)	103.0 (4.7)	111.4 (10.6)
clenbuterol	97.2 (7.5)	98.0 (6.3)	104.1 (2.6)	107.1 (7.3)
methylphenidate	173.3 (4.7)	97.4 (5.0)	105.6 (4.6)	100.6 (4.9)
heroin	127.2 (2.5)	99.9 (3.5)	108.9 (2.0)	102.8 (2.1)
zolpidem	104.0 (2.0)	100.7 (2.2)	102.9 (1.5)	101.2 (1.9)
cocaine	117.0 (21.0)	99.7 (16.6)	103.9 (8.6)	121.7 (19.3)
LSD	103.2 (1.4)	99.6 (1.1)	101.0 (1.0)	100.2 (1.2)
bisoprolol	89.2 (15.9)	94.5 (11.0)	100.5 (2.7)	115.9 (13.7)
phencyclidine	76.1 (20.2)	91.8 (10.7)	92.6 (3.5)	123.9 (23.4)
propranolol	102.8 (5.2)	100.1 (6.0)	103.1 (3.6)	105.3 (6.0)
prednisolone	98.7 (0.9)	97.7 (3.1)	97.9 (1.3)	98.7 (3.2)
fentanyl	105.5 (20.2)	101.3 (15.8)	108.4 (5.8)	121.6 (14.8)
prednisone	96.5 (1.0)	101.1 (4.3)	99.0 (1.1)	101.5 (2.5)
buprenorphine	106.4 (4.5)	99.2 (5.0)	105.6 (3.5)	110.6 (4.5)
ibutamoren	115.4 (0.7)	104.0 (5.0)	109.1 (3.9)	107.2 (4.4)
betamethasone	89.2 (2.3)	95.7 (3.8)	101.0 (3.0)	98.7 (4.7)
furosemide	94.9 (0.5)	97.8 (1.3)	101.4 (2.2)	98.7 (1.8)
neбиволol	118.0 (2.1)	99.1 (4.1)	104.4 (4.0)	103.3 (7.0)
alprazolam	98.3 (1.1)	100.5 (1.2)	100.5 (0.7)	101.7 (0.9)
anastrozole	100.9 (1.0)	100.9 (1.4)	101.0 (0.7)	100.9 (1.9)
stanozolol	61.8 (0.6)	94.9 (1.9)	96.7 (2.8)	99.8 (3.8)
methadone	94.8 (12.1)	96.4 (10.2)	101.3 (3.1)	114.2 (17.0)
boldenone	92.3 (0.8)	98.9 (1.4)	99.4 (0.8)	100.4 (1.5)
clonazepam	99.0 (0.6)	99.1 (1.2)	100.7 (0.7)	100.8 (1.2)
nandrolone	92.2 (1.9)	98.2 (1.8)	98.8 (2.1)	99.3 (1.3)
methandienone	90.8 (0.5)	99.3 (2.1)	99.3 (1.2)	100.3 (1.5)
flunitrazepam	98.0 (1.3)	99.7 (1.7)	100.6 (1.0)	99.7 (0.8)
canrenone	62.1 (2.6)	97.8 (2.0)	98.9 (1.3)	100.5 (2.7)
THC-COOH	22.4 (6.4)	40.3 (8.7)	47.7 (15.3)	87.7 (3.8)
THC	20.5 (3.5)	23.9 (6.1)	24.5 (11.9)	41.3 (11.0)







**Tab. B5** Drug recoveries [%] from Sarstedt Salivette® swabs – comparison of results recorded from spiked oral fluid (n=3) and spiked ultrapure water (n=4). Relative standard deviations (RSDs) [%] given in brackets.

substance	spiked oral fluid	spiked ultrapure water
morphine	89.2 (7.4)	99.4 (4.7)
salbutamol	87.1 (23.9)	81.2 (2.8)
terbutaline	85.2 (12.1)	55.0 (1.9)
atenolol	84.2 (23.7)	119.4 (3.6)
fenoterol	65.1 (11.2)	35.0 (5.9)
nikethamide	85.6 (12.1)	69.3 (1.8)
carteolol	66.3 (6.3)	60.1 (4.3)
oxycodone	63.7 (4.6)	79.2 (2.8)
amphetamine	78.8 (4.6)	71.8 (5.7)
chlorothiazide	108.1 (30.7)	120.8 (2.7)
hydrocodone	66.9 (7.5)	90.6 (2.8)
methamphetamine	74.1 (6.1)	110.3 (3.5)
methylhexanamine	91.7 (14.7)	94.0 (3.8)
MDMA	70.5 (2.6)	71.9 (5.6)
strychnine	63.2 (13.0)	65.3 (8.0)
ketamine	73.7 (9.6)	53.3 (4.0)
metoprolol	68.5 (4.1)	66.9 (5.4)
clenbuterol	69.3 (6.9)	55.6 (6.4)
heroin	77.1 (9.0)	100.0 (3.2)
zolpidem	66.8 (6.6)	30.7 (9.1)
cocaine	72.1 (5.4)	108.1 (9.3)
LSD	54.3 (10.5)	19.3 (18.4)
propranolol	61.9 (7.9)	48.9 (11.1)
prednisolone	94.7 (5.3)	84.4 (4.4)
fentanyl	87.4 (8.8)	76.1 (6.7)
prednisone	94.5 (5.6)	95.4 (1.1)
buprenorphine	84.4 (7.8)	58.0 (6.7)
ibutamoren	82.2 (13.0)	56.2 (9.8)
betamethasone	80.4 (21.7)	88.1 (3.4)
furosemide	74.4 (21.6)	69.2 (4.5)
nebivolol	14.3 (29.6)	18.9 (10.1)
alprazolam	85.7 (4.0)	85.3 (4.6)
anastrozole	91.5 (12.0)	96.8 (7.0)
stanozolol	25.7 (25.3)	13.9 (9.0)
methadone	88.8 (8.9)	69.6 (4.2)
boldenone	90.3 (7.9)	75.6 (5.5)
clonazepam	82.4 (7.4)	71.7 (4.0)
nandrolone	84.7 (10.3)	84.5 (3.2)
methandienone	95.8 (6.8)	77.3 (5.1)
flunitrazepam	87.0 (6.6)	77.1 (3.7)
canrenone	88.2 (8.7)	70.4 (3.2)
THC-COOH	64.6 (13.4)	7.3 (6.8)
THC	16.4 (18.7)	5.7 (33.8)