

Test parameter	0.9 % DMSO	Negative Control
Cell Count (x 1.000) n=3	730 (605 - 1020)	555 (435 - 610)
Vitality [%] n=3	80 (80 - 89)	84 (79 - 89)
LDH [U/l] n=5	71 (44 - 81)	25 (21 - 30)
XTT (OD) n=15	1.8 (1.8 - 2.8)	1.3 (1.2 - 1.5)
CYP1A2-activity: resorufin [pmol/l], n=8	3.7 (2.9 - 4.8)	5.5 (2.6 - 5.7)

Supplementary Table S1: Test results for HepG2/C3A cells after exposure to 0.9 % DMSO (dimethyl sulfoxide) compared with pure cell culture medium after 3 days incubation. Values represent as median and min/max. LDH: lactate dehydrogenase

	pH		
	C _{max}	C _{5x}	C _{10x}
Midazolam (300 ng/ml 1500 ng/ml 3000 ng/ml)	7,71 7,71 / 7,75	7,71 7,69 / 7,73	7,82 7,78 / 7,82
Propofol (2 µg/ml 10 µg/ml 20 µg/ml)	7,69 7,69 / 7,71	7,73 7,73 / 7,75	7,69 7,67 / 7,69
S-Ketamine (1 µg/ml 5 µg/ml 10 µg/ml)	7,70 7,70 / 7,71	7,79 7,78 / 7,80	7,81 7,80 / 7,82
Thiopental (1 mg/ml 5 mg/ml 10 mg/ml)	7,75 7,75 / 7,77	7,79 7,79 / 7,83	8,01 * 7,92 / 8,01
Fentanyl (10 ng/ml 50 ng/ml 100 ng/ml)	7,74 7,72 / 7,76	7,68 7,66 / 7,70	7,68 7,68 / 7,68
Remifentanyl (15 ng/ml 75 ng/ml 150 ng/ml)	7,66 7,65 / 7,66	7,62 7,60 / 7,65	7,62 7,62 /
Sufentanyl (1 ng/ml 5 ng/ml 10 ng/ml)	7,66 7,65 / 7,68	7,75 7,73 / 7,78	7,71 7,70 / 7,72
Negative control	7,75 7,71 / 7,85		

Supplementary Table S2: pH for HepG2/C3A cells in medium after exposure to sedatives and opioids in concentrations C_{max}, C_{5x} and C_{10x}. Values represent as median and 25th/75th percentile. Significance between negative control and exposure groups is indicated by * p < 0.05.

	pH		
	C _{max}	C _{5x}	C _{10x}
Midazolam (300 ng/ml 1500 ng/ml 3000 ng/ml)	7,63 7,61 / 7,65	7,88 * 7,79 / 7,89	7,74 7,71 / 7,74
Propofol (2 µg/ml 10 µg/ml 20 µg/ml)	7,64 7,63 / 7,65	7,68 7,67 / 7,69	7,68 7,64 / 7,68
S-Ketamine (1 µg/ml 5 µg/ml 10 µg/ml)	7,64 7,64 / 7,65	7,74 * 7,72 / 7,74	7,73 * 7,71 / 7,74
Thiopental (1 mg/ml 5 mg/ml 10 mg/ml)	7,71 * 7,70 / 7,71	7,95 * 7,84 / 7,97	7,76 * 7,74 / 7,77
Fentanyl (10 ng/ml 50 ng/ml 100 ng/ml)	7,67 7,66 / 7,67	7,65 7,64 / 7,65	7,64 7,63 / 7,68
Remifentanyl (15 ng/ml 75 ng/ml 150 ng/ml)	7,58 7,58 / 7,59	7,64 7,61 / 7,76	7,58 7,56 / 7,58
Sufentanyl (1 ng/ml 5 ng/ml 10 ng/ml)	7,63 7,60 / 7,64	7,64 7,63 / 7,64	7,63 7,60 / 7,67
Negativkontrolle	7,66 7,60 / 7,69		

Supplementary Table S3: pH for HepG2/C3A cells in plasma after exposure to sedatives and opioids in concentrations C_{max}, C_{5x} and C_{10x}. Values represent as median and 25th/75th percentile.

Significance between negative control and exposure groups is indicated by * p < 0.05