

Supplemental Table S1: Recipe for drug cocktails, related to step 19 in part C and step 27 in part 4

	Stock concentration	Drug dosage	volume (µl)									
ANESTHESIA 1 COCKTAIL			Total number of mice (~25 g)									
			1	2	3	4	5	6	7	8	9	10
Fentanyl	50 µg/ml	0.05 mg/kg	25	50	75	100	125	150	175	200	225	250
Dexmedetomidin	0.5 mg/ml	1 mg/kg	50	100	150	200	250	300	350	400	450	500
Midazolam	1 mg/ml	5 mg/kg	125	250	375	500	625	750	875	1000	1125	1250
Saline			200	400	600	800	1000	1200	1400	1600	1800	2000
Total			400	800	1200	1600	2000	2400	2800	3200	3600	4000
REVERSAL 1 COCKTAIL			Total number of mice (~25 g)									
			1	2	3	4	5	6	7	8	9	10
Atipemazole	5 mg/ml	2.5 mg/kg	12.5	25	37.5	50	62.5	75	87.5	100	112.5	125
Buprenorphine	0.3 mg/ml	0.1 mg/kg	8.25	16.5	24.75	33	41.25	49.5	57.75	66	74.25	82.5
Flumazenil	0.1 mg/ml	0.2 mg/kg	50	100	150	200	250	300	350	400	450	500
Saline			79.25	158.5	237.75	317	396.25	475.5	554.75	634	713.25	792.5
Total			150	300	450	600	750	900	1050	1200	1350	1500
ANESTHESIA 2 COCKTAIL			Total number of mice (~25 g)									
			1	2	3	4	5	6	7	8	9	10
Ketamine	50 mg/ml	100 mg/kg	50	100	150	200	250	300	350	400	450	500
Xylazine	1 mg/ml	10 mg/kg	250	250	250	250	250	250	250	250	250	2500
Saline			300	350	400	450	500	550	600	650	700	3000
Total			600	700	800	900	1000	1100	1200	1300	1400	6000
REVERSAL 2 COCKTAIL			Total number of mice (~25 g)									
			1	2	3	4	5	6	7	8	9	10
Atipemazole	5 mg/ml	2.5 mg/kg	12.5	25	37.5	50	62.5	75	87.5	100	112.5	125
Buprenorphine	0.3 mg/ml	0.1 mg/kg	8.25	16.5	24.75	33	41.25	49.5	57.75	66	74.25	82.5
Saline			20.75	41.5	62.25	83	103.75	124.5	145.25	166	186.75	207.5
Total			41.5	83	124.5	166	207.5	249	290.5	332	373.5	415
ANALGESIC			Total number of mice (~25 g)									
			1	2	3	4	5	6	7	8	9	10
Meloxicam	5 mg/ml	2 mg/kg	10	20	30	40	50	60	70	80	90	100
Saline			290	580	870	1160	1450	1740	2030	2320	2610	2900
Total			300	600	900	1200	1500	1800	2100	2400	2700	3000