

Table 3 Dose response in *M. cephalus* and *S. aurata* to MS-222 in respect to different stages (S) sedation, (R) recovery

Fish stage & species	S duration (min)			R duration (min)		
	Conc. 100 mL ⁻¹	Conc. 125 mL ⁻¹	Conc. 150 mL ⁻¹	Conc. 100 mL ⁻¹	Conc. 125 mL ⁻¹	Conc. 150 mL ⁻¹
Adult						
<i>M. cephalus</i> (Mean ±SD)	1.288 ±0.045	0.869 ±0.034	0.704 ±0.032	0.495 ±0.025	0.716 ±0.022	0.783 ±0.096
P1 ≤0.001		0.003	0.001		0.013	0.011
P2 ≤0.001			0.105			0.360
<i>S. aurata</i> (Mean ±SD)	1.004 ±0.059	0.605 ±0.032	0.539 ±0.036	0.529 ±0.027	0.859 ±0.027	0.985 ±0.039
P1 ≤0.001		0.036*	0.022*		0.042*	0.021*
P2 ≤0.001			0.221,0			0.107,0
Juveniles						
<i>M. cephalus</i> (Mean ±SD)	Conc. 50 mL ⁻¹ 1.055 ±0.073	Conc. 75 mL ⁻¹ 1.010 ±0.053	Conc. 100 mL ⁻¹ 0.903 ±0.058	Conc. 50 mL ⁻¹ 0.485 ±0.026	Conc. 75 mL ⁻¹ 0.591 ±0.040	Conc. 100 mL ⁻¹ 0.786 ±0.033
P1 ≤0.001		0.221	0.107		0.225	0.036*
P2 ≤0.001			0.123			0.044*
<i>S. aurata</i> (Mean ±SD)	1.051 ±0.085	0.850 ±0.055	0.709 ±0.056	0.570 ±0.039	0.754 ±0.045	0.955 ±0.054
P1 ≤0.001		0.123	0.098		0.013*	0.002*
P2 ≤0.001			0.225			0.016,6*