

**Table S1.** The accuracy and RSD of quality control samples of MDZ and 1'-OH MDZ

	Theoretical concentration ( $\mu\text{g/mL}$ )	Concentration observed ( $\mu\text{g/mL}$ )	Accuracy (%)	RSD (%)
MDZ	0.05	$0.06 \pm 0.00$	114.3	2.0
	0.5	$0.49 \pm 0.03$	97.3	5.1
	1.0	$0.96 \pm 0.09$	96.2	9.1
	2.0	$2.02 \pm 0.06$	101.1	3.2
1'-OH-MDZ	0.5	$0.49 \pm 0.01$	99.0	0.9
	1.0	$1.01 \pm 0.00$	100.8	0.8
	2.0	$1.83 \pm 0.03$	91.6	1.4
	5.0	$5.04 \pm 0.04$	100.8	0.8

RSD, relative standard deviation; MDZ, midazolam; 1'-OH-MDZ, 1'-hydroxymidazolam.