

Supporting Information

Binding of Small Molecule Drugs to Porcine Vitreous Humor

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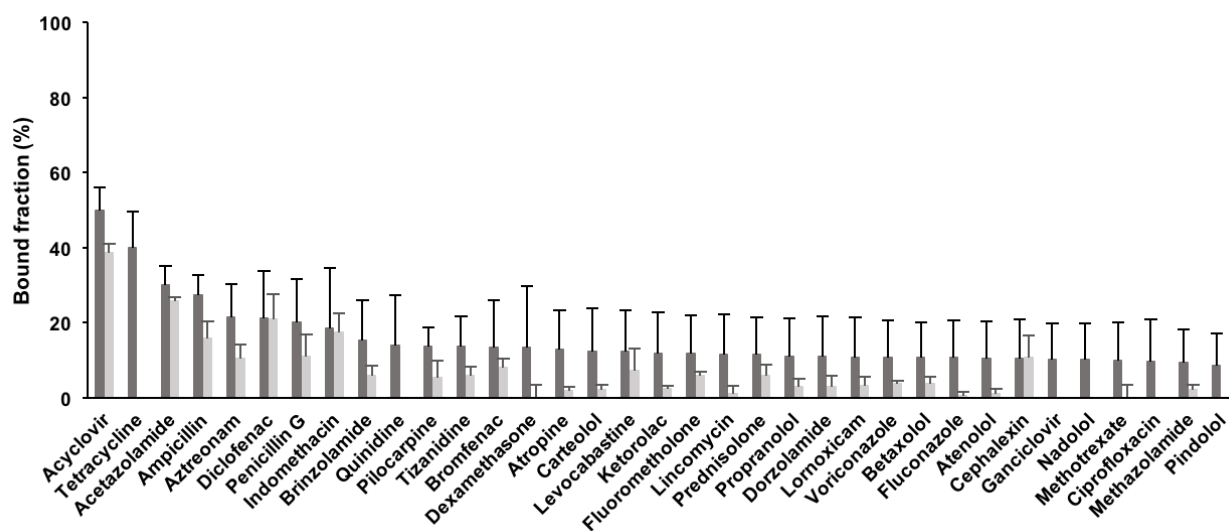


Figure S1. Diluted (*in vitro* setting) binding percentages in the fresh (dark gray) and frozen (light gray) vitreous.

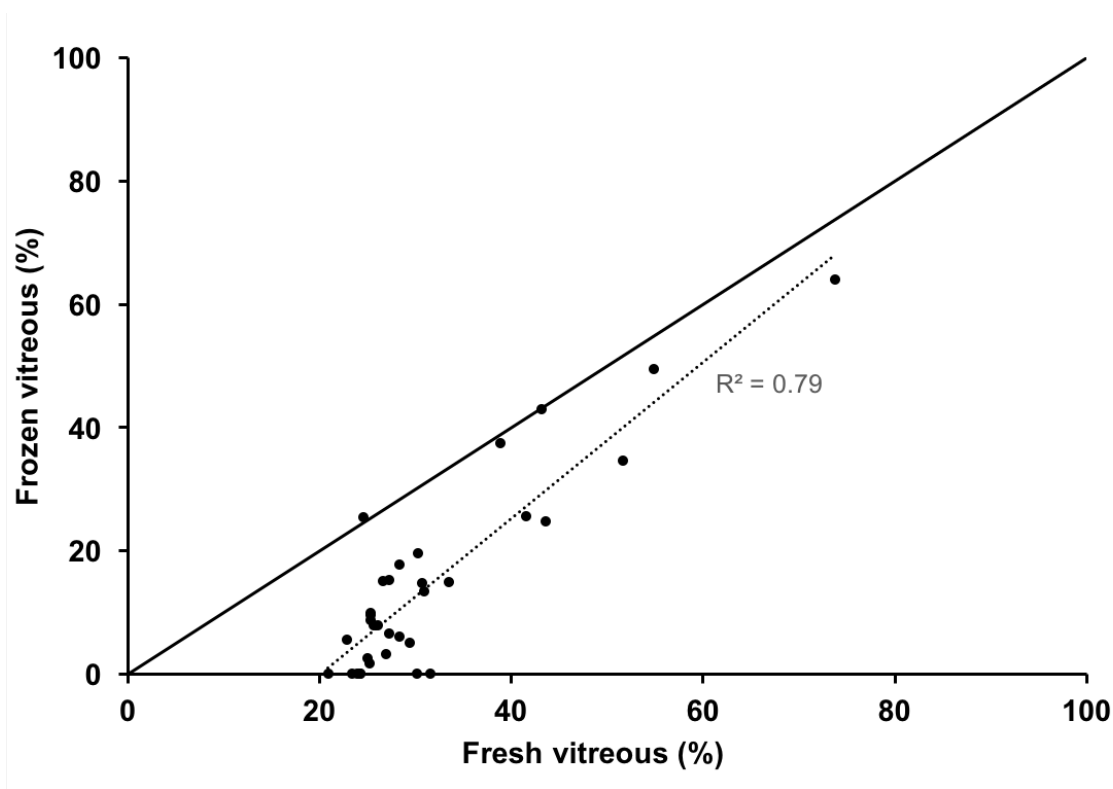


Figure S2. Comparison of binding in the fresh vs. frozen vitreous.

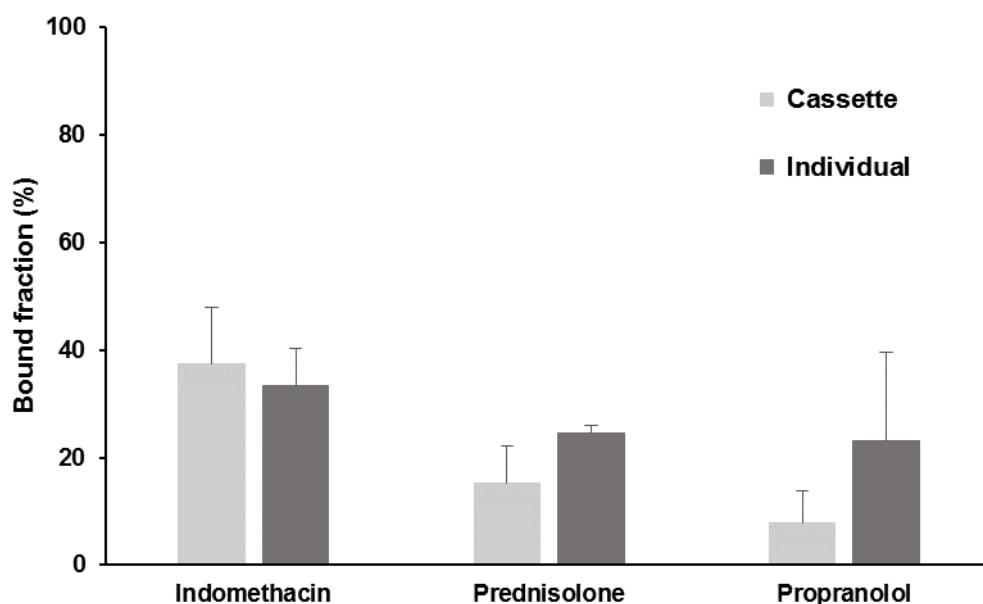


Figure S3. Comparison of the binding studied with individual drugs and the cassette mixture: indomethacin, prednisolone and propranolol (frozen vitreous, diluted results). There were no statistically significant differences between binding studied with individual compounds and cassette mixture.

Table S1. Detailed information of the mass spectrometric (LC-MS/MS) method.

	Compound	Precursor ion m/z	Product ion m/z	Collision energy (V)	Dwell time (s)	Range (ng/mL)	Retention time (min)	Internal standard
1	Acetazolamide	223.0	180.0	13	0.016	2-350	1.93	Atenolol D7
	Acetazolamide (Qualifier)	223.0	163.8	21	0.016		1.93	
2	Acyclovir	226.0	152.0	9	0.122	1-350	1.12	Ganciclovir D5
	Acyclovir (Qualifier)	226.0	134.9	33	0.122		1.12	
3	Ampicillin	350.0	191.8	13	0.006	5-350	2.21	Atropine D5
	Ampicillin (Qualifier)	350.0	106.1	29	0.006		2.21	
4	Atenolol	267.0	145.0	29	0.016	0.2-350	1.79	Atenolol D7
	Atenolol (Qualifier)	267.0	190.0	21	0.016		1.79	
5	Atropine	290.0	124.1	29	0.013	0.1-350	2.39	Atropine D5
	Atropine (Qualifier)	290.0	93.0	37	0.013		2.39	
6	Aztreonam	436.0	356.1	8	0.006	5-350	2.07	Lincomycin D3
	Aztreonam (Qualifier)	436.0	312.9	12	0.006		2.07	
7	Betaxolol	308.0	116.1	29	0.058	0.1-350	3.26	Lornoxicam D4
	Betaxolol (Qualifier)	308.0	72.1	25	0.058		3.26	
8	Brinzolamide	384.0	280.8	16	0.016	5-350	2.42	Atropine D5
	Brinzolamide (Qualifier)	384.0	216.9	28	0.016		2.42	
9	Bromfenac	334.0	287.9	36	0.122	0.5-350	4.70	Indomethacin D4
	Bromfenac (Qualifier)	334.0	208.9	20	0.122		4.70	
10	Carteolol	293.0	236.9	17	0.006	5-350	2.16	Lincomycin D3
	Carteolol (Qualifier)	293.0	201.9	25	0.006		2.16	
11	Cephalexin	348.0	158.0	5	0.006	10-350	2.23	Fluconazole D4
	Cephalexin (Qualifier)	348.0	106.0	33	0.006		2.23	
12	Ciprofloxacin	332.0	288.8	17	0.013	10-350	2.37	Atropine D5
	Ciprofloxacin (Qualifier)	332.0	230.8	41	0.013		2.37	

13	Dexamethasone	393.0	373.1	4	0.020	10-350	3.87	Lornoxicam D4
	Dexamethasone (Qualifier)	393.0	355.0	12	0.020		3.87	
14	Diclofenac	297.0	250.9	9	0.037	2-350	4.94	Indomethacin D4
	Diclofenac (Qualifier)	297.0	214.9	41	0.037		4.94	
15	Dorzolamide	325.0	198.7	16	0.016	5-350	1.77	Atenolol D7
	Dorzolamide (Qualifier)	325.0	135.0	40	0.016		1.77	
16	Fluconazole	307.0	219.9	17	0.048	0.2-350	2.69	Fluconazole D4
	Fluconazole (Qualifier)	307.0	237.9	21	0.048		2.69	
17	Fluorometholone	377.0	278.9	13	0.078	0.5-350	4.13	Lornoxicam D4
	Fluorometholone (Qualifier)	377.0	250.8	17	0.078		4.13	
18	Ganciclovir	256.0	151.9	21	0.059	2-350	0.88	Ganciclovir D5
	Ganciclovir (Qualifier)	256.0	134.9	25	0.059		0.88	
19	Indomethacin	358.1	139.0	22	0.037	2-350	4.94	Indomethacin D4
	Indomethacin (Qualifier)	358.1	111.0	35	0.037		4.94	
20	Ketorolac	258.0	105.0	25	0.020	0.1-350	3.87	Lornoxicam D4
	Ketorolac (Qualifier)	258.0	77.0	41	0.020		3.87	
21	Levocobastine	421.0	174.0	36	0.037	0.2-350	3.52	Lornoxicam D4
	Levocobastine (Qualifier)	421.0	70.0	44	0.037		3.52	
22	Lincomycin	407.0	359.1	16	0.006	2-350	2.08	Lincomycin D3
	Lincomycin (Qualifier)	407.0	126.0	32	0.006		2.08	
23	Lornoxicam	372.0	94.4	20	0.020	0.5-350	3.76	Lornoxicam D4
	Lornoxicam (Qualifier)	372.0	121.0	24	0.020		3.76	
24	Methazolamide	237.0	194.9	12	0.006	5-350	2.34	Fluconazole D4
	Methazolamide (Qualifier)	237.0	116.0	36	0.006		2.34	
25	Methotrexate	455.1	308.1	18	0.006	2-350	2.15	Methotrexate D3
	Methotrexate (Qualifier)	455.1	175.0	38	0.006		2.15	
26	Nadolol	310.0	254.1	17	0.006	0.2-350	2.20	Atenolol D7
	Nadolol (Qualifier)	310.0	201.0	25	0.006		2.20	
27	Penicillin G	335.0	176.0	13	0.037	0.5-350	3.58	Lornoxicam D4
	Penicillin G (Qualifier)	335.0	159.9	17	0.037		3.58	
28	Pilocarpine	209.0	120.9	29	0.016	0.5-350	1.66	Atenolol D7
	Pilocarpine (Qualifier)	209.0	95.0	37	0.016		1.66	
29	Pindolol	249.0	116.1	17	0.006	0.2-350	2.25	Atropine D5
	Pindolol (Qualifier)	249.0	171.9	17	0.006		2.25	
30	Prednisolone	361.3	343.2	8	0.037	5-350	3.46	Lornoxicam D4
	Prednisolone (Qualifier)	361.3	147.1	22	0.037		3.46	
31	Propranolol	260.0	116.1	17	0.058	0.1-200	3.16	Lornoxicam D4
	Propranolol (Qualifier)	260.0	183.0	17	0.058		3.16	
32	Quinidine	325.0	81.0	32	0.013	10-350	2.30	Atropine D5
	Quinidine (Qualifier)	325.0	160.1	32	0.013		2.30	
33	Tetracyclin	445.0	410.0	21	0.016	5-350	2.45	Atropine D5
	Tetracyclin (Qualifier)	445.0	153.9	33	0.016		2.45	
34	Tizanidine	254.0	186.0	24	0.016	1-350	1.90	Atenolol D7
	Tizanidine (Qualifier)	254.0	210.0	28	0.016		1.90	
35	Voriconazole	350.0	281.0	14	0.040	0.1-200	4.04	Lornoxicam D4

	Voriconazole (Qualifier)	350.0	127.0	46	0.040		4.04	
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