

**Table S1.** Adsorption results (efficiency, %) of the selected compounds on all FPSE membranes studied.

Extraction time (min)	Sample Volume (mL)	pH	Sol-gel CW 20M			Sol-gel PEG 300			Sol-gel UCON			Sol-gel CN-CW20M		
			EPI	DAU	DOX	EPI	DAU	DOX	EPI	DAU	DOX	EPI	DAU	DOX
30	10	3	54	72	26	4	19	14	30	44	41	94	95	94
15	10	9	67	87	63	49	64	54	0	0	0	75	52	72
30	10	9	93	100	96	96	100	86	78	37	83	49	47	52
15	10	3	44	81	40	4	12	4	46	58	35	0	0	0
15	20	3	30	86	30	20	22	15	10	20	14	28	33	29
30	20	3	62	85	37	9	14	9	87	89	91	0	0	12
30	20	9	73	0	58	79	60	76	59	84	82	0	0	0
15	20	9	81	62	97	81	20	95	18	42	24	20	0	0
			Sol-gel PTHF 250			Sol-gel SILICA			Sol-gel PCAP - PDMS - PCAP					
30	10	3	30	51	3	93	96	92	0	0	0	-	-	-
15	10	9	96	83	95	74	41	68	50	56	18	-	-	-
30	10	9	0	29	0	50	49	49	88	7	86	-	-	-
15	10	3	89	85	86	50	60	59	0	0	0	-	-	-
15	20	3	12	25	26	88	94	89	99	97	98	-	-	-
30	20	3	72	72	63	5	31	39	0	0	11	-	-	-
30	20	9	45	77	63	11	0	0	3	0	86	-	-	-
15	20	9	73	41	43	79	69	78	52	63	61	-	-	-