

Supplementary materials

Table S1: Tween 20, binding affinity values (K_{eq}) \pm 1 standard error (in 10^3 mol l^{-1}) measured for 2,4,5-T on MIP & NIP and for 2,4-D on MIP

2,4,5-T (on MIP)	Molar fraction of MeCN in water				
	0.00	0.24	0.42	0.66	0.81
no Tween 20	80 \pm 9	61 \pm 5	78 \pm 5	189 \pm 3	830 \pm 8
Tween 20 0.81 mM	77 \pm 1	47 \pm 3	69 \pm 1	184 \pm 1	749 \pm 2
Tween 20 4.10 mM	61 \pm 1	44 \pm 3	57 \pm 1	170 \pm 1	709 \pm 3
Tween 20 8.10 mM	56 \pm 1	41 \pm 1	46 \pm 3	159 \pm 1	649 \pm 4
Tween 20 20.40 mM	53 \pm 3	36 \pm 2	43 \pm 3	152 \pm 1	622 \pm 4

2,4-D (on MIP)	Molar fraction of MeCN in water				
	0.00	0.24	0.42	0.66	0.81
no Tween 20	56 \pm 3	38 \pm 2	47 \pm 3	97 \pm 2	431 \pm 25
Tween 20 0.81 mM	52 \pm 1	30 \pm 1	42 \pm 1	94 \pm 1	364 \pm 3
Tween 20 4.10 mM	47 \pm 1	28 \pm 1	39 \pm 1	90 \pm 1	358 \pm 1
Tween 20 8.10 mM	42 \pm 1	25 \pm 2	32 \pm 1	84 \pm 1	351 \pm 1
Tween 20 20.40 mM	37 \pm 1	23 \pm 1	28 \pm 1	79 \pm 1	324 \pm 2

2,4,5-T (on NIP)	Molar fraction of MeCN in water				
	0.00	0.24	0.42	0.66	0.81
no Tween 20	39 \pm 7	14 \pm 3	25 \pm 12	101 \pm 8	398 \pm 7
Tween 20 0.81 mM	21 \pm 1	10 \pm 1	20 \pm 1	70 \pm 1	264 \pm 1
Tween 20 4.10 mM	15 \pm 1	8 \pm 3	17 \pm 2	68 \pm 4	254 \pm 6
Tween 20 8.10 mM	15 \pm 1	8 \pm 2	15 \pm 1	66 \pm 1	255 \pm 4
Tween 20 20.40 mM	15 \pm 1	7 \pm 1	13 \pm 1	63 \pm 1	250 \pm 6

Table S2: SDS, binding affinity values (K_{eq}) \pm 1 standard error (in 10^3 mol l^{-1}) measured for 2,4,5-T on MIP & NIP and for 2,4-D on MIP

2,4,5-T (on MIP)	Molar fraction of MeCN in water				
	0.00	0.24	0.42	0.66	0.81
no SDS	80 \pm 9	61 \pm 5	78 \pm 5	189 \pm 3	830 \pm 8
SDS 1.73 mM	30 \pm 1	6 \pm 1	9 \pm 1	31 \pm 1	128 \pm 2
SDS 3.46 mM	21 \pm 5	7 \pm 1	17 \pm 1	27 \pm 1	105 \pm 2
SDS 5.19 mM	13 \pm 2	5 \pm 1	10 \pm 1	24 \pm 1	90 \pm 1
SDS 6.92 mM	9 \pm 1	4 \pm 1	8 \pm 4	20 \pm 1	75 \pm 2

2,4-D (on MIP)	Molar fraction of MeCN in water				
	0.00	0.24	0.42	0.66	0.81
no SDS	56 \pm 3	38 \pm 2	47 \pm 3	97 \pm 2	431 \pm 25
SDS 1.73 mM	16 \pm 1	7 \pm 1	14 \pm 1	19 \pm 1	70 \pm 2
SDS 3.46 mM	13 \pm 1	5 \pm 1	9 \pm 1	14 \pm 1	57 \pm 1
SDS 5.19 mM	8 \pm 1	4 \pm 2	6 \pm 1	12 \pm 1	56 \pm 1
SDS 6.92 mM	7 \pm 1	3 \pm 1	4 \pm 1	10 \pm 1	50 \pm 1

2,4,5-T (on NIP)	Molar fraction of MeCN in water				
	0.00	0.24	0.42	0.66	0.81
no SDS	39 \pm 7	14 \pm 3	25 \pm 12	101 \pm 8	398 \pm 7
SDS 1.73 mM	3 \pm 1	2 \pm 1	7 \pm 1	10 \pm 1	59 \pm 1
SDS 3.46 mM	2 \pm 1	1 \pm 1	3 \pm 1	8 \pm 1	50 \pm 6
SDS 5.19 mM	1 \pm 1	1 \pm 1	2 \pm 1	7 \pm 1	52 \pm 1
SDS 6.92 mM	2 \pm 1	1 \pm 1	2 \pm 1	5 \pm 1	52 \pm 2

Table S3: CTAB, binding affinity values (K_{eq}) \pm 1 standard error (in 10^3 mol l^{-1}) measured for 2,4,5-T on MIP & NIP and for 2,4-D on MIP

2,4,5-T (on MIP)	Molar fraction of MeCN in water				
	0.00	0.24	0.42	0.66	0.81
no CTAB	80 \pm 9	61 \pm 5	78 \pm 5	189 \pm 3	830 \pm 8
CTAB 1.37 mM	21 \pm 1	9 \pm 1	17 \pm 1	20 \pm 3	299 \pm 2
CTAB 2.74 mM	22 \pm 4	9 \pm 1	12 \pm 1	38 \pm 2	187 \pm 5
CTAB 4.12 mM	19 \pm 1	6 \pm 1	9 \pm 2	34 \pm 2	182 \pm 12
CTAB 5.90 mM	16 \pm 1	6 \pm 1	8 \pm 1	26 \pm 1	153 \pm 3

2,4-D (on MIP)	Molar fraction of MeCN in water				
	0.00	0.24	0.42	0.66	0.81
no CTAB	56 \pm 3	38 \pm 2	47 \pm 3	97 \pm 2	431 \pm 25
CTAB 1.37 mM	16 \pm 2	11 \pm 1	14 \pm 3	29 \pm 1	249 \pm 107
CTAB 2.74 mM	16 \pm 1	6 \pm 1	9 \pm 1	30 \pm 1	165 \pm 7
CTAB 4.12 mM	15 \pm 1	4 \pm 1	6 \pm 1	27 \pm 3	15 \pm 7
CTAB 5.90 mM	14 \pm 3	4 \pm 1	7 \pm 1	19 \pm 1	136 \pm 7

2,4,5-T (on NIP)	Molar fraction of MeCN in water				
	0.00	0.24	0.42	0.66	0.81
no CTAB	39 \pm 7	14 \pm 3	25 \pm 12	101 \pm 8	398 \pm 7
CTAB 1.37 mM	5 \pm 2	4 \pm 3	5 \pm 2	22 \pm 2	102 \pm 6
CTAB 2.74 mM	4 \pm 1	2 \pm 1	3 \pm 1	17 \pm 2	88 \pm 1
CTAB 4.12 mM	4 \pm 1	1 \pm 1	2 \pm 2	13 \pm 1	81 \pm 20
CTAB 5.90 mM	3 \pm 1	1 \pm 1	1 \pm 1	14 \pm 2	76 \pm 1