

Thin Thermo-responsive Polymer Films onto the Pore System of Chromatographic Beads *via* Reversible Addition-Fragmentation Chain Transfer Polymerization

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⁵ Received (in XXX, XXX) 1st January 2007, Accepted 1st January 2007

First published on the web 1st January 2007

DOI: 10.1039/b000000x

Supplementary information

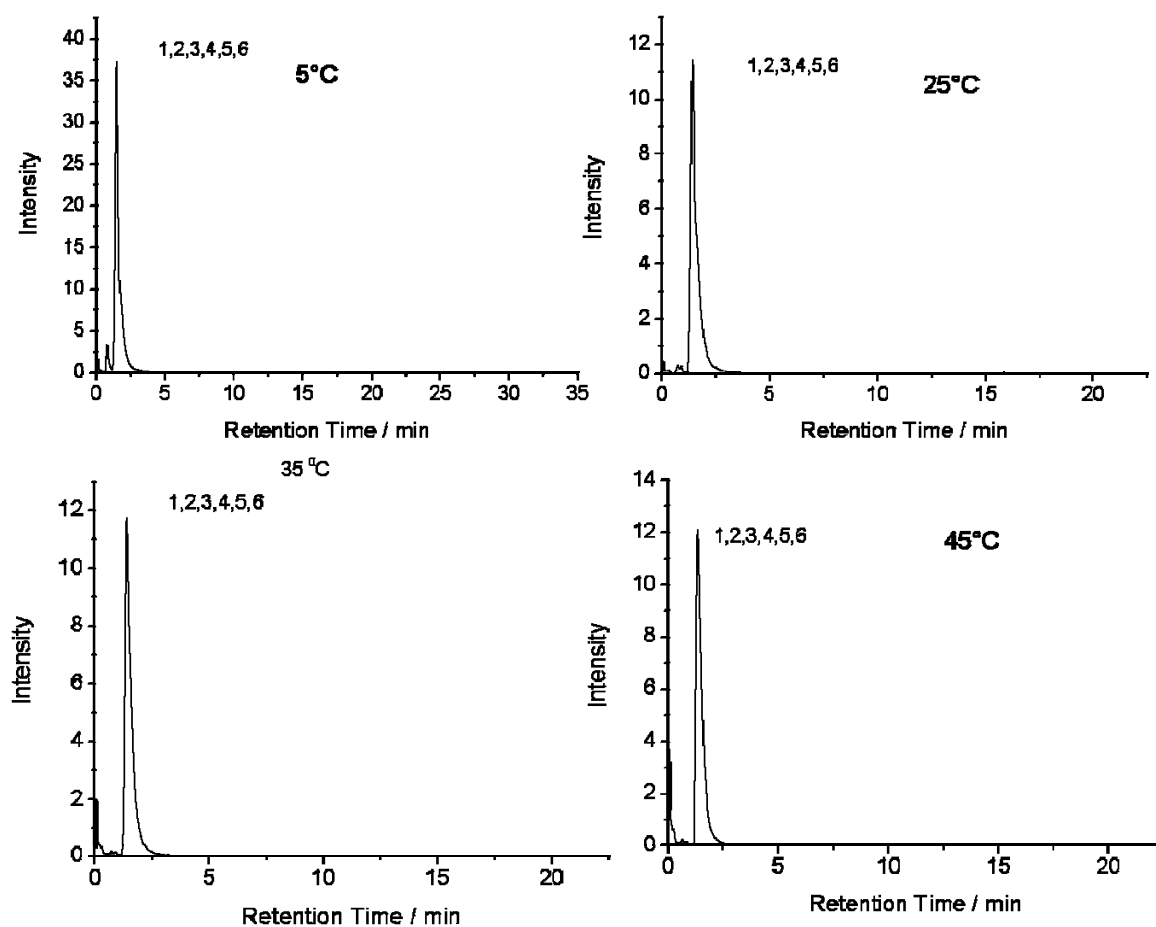


Fig. S1 Chromatograms of the steroids mixture and benzene on the pure Si column at four different temperatures 1: Benzene 2: Hydrocortisone, 3: Hydrocortisone Acetate, 4: Dexamethasone, 5: Prednisolone, 6: Testosterone

Table S1 Plate numbers of steroids at four different temperatures

Plate Number/ Number m ⁻¹	1 ^b	2 ^b	3 ^b	4 ^b	5 ^b	6 ^b
P ₅ ^a	7600	4500	3800	4000	4500	5000
P ₂₅ ^a	11750	7500	7000	7000	7500	8100
P ₃₅ ^a	13700	9300	8800	8500	8700	10100
P ₄₅ ^a	14750	10500	9800	9600	10000	10100
P ₅₅ ^a	15000	12000	11000	11000	11800	13100

^a The subscripts show the temperature at which the plate number was calculated

^b 1: Benzene, 2: Hydrocortisone, 3 Hydrocortisone acetate, 4: Dexamethasone, 5: Prednisolone, 6: Testosterone

Table S2 Symmetry Factor of steroids at four different temperature

Symmetry Factor	1 ^b	2 ^b	3 ^b	4 ^b	5 ^b	6 ^b
S ₅ ^a	0.64	1.1	0.94	1.12	1.18	0.97
S ₂₅ ^a	0.78	1.18	0.92	1.21	1.23	0.98
S ₃₅ ^a	0.95	1.25	0.84	1.28	1.32	1.16
S ₄₅ ^a	1.04	1.31	0.9	1.29	1.35	0.83
S ₅₅ ^a	0.94	1.37	0.79	1.37	1.36	1.17

^a The subscripts show the temperature at which the Symmetry factor was calculated

^b 1: Benzene, 2: Hydrocortisone, 3 Hydrocortisone acetate, 4: Dexamethasone, 5: Prednisolone, 6: Testosterone

Table S3 Log P values of the steroids

Log P	2 ^a	3 ^a	4 ^a	5 ^a	6 ^a
	1.47	2.45	1.83	1.62	3.32

^a 2: Hydrocortisone, 3 Hydrocortisone acetate, 4: Dexamethasone, 5: Prednisolone, 6: Testosterone

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