

Table S1: Observed rate constants for hydroxide-catalyzed deamination of **PB** in aqueous solution in the absence and in the presence of p-sulfonated calixarenes as a function of pH.^a

Host (conc.)	$k_{\text{obs}}, 10^{-4} \text{ s}^{-1}$				
	[OH ⁻], M				
	0.0120	0.0256	0.0511	0.0944	0.132
none	10.2 ± 0.1	21 ± 1	41 ± 3	73 ± 2	109 ± 4
SCa (7 mM)	4.7 ± 0.1	12.2 ± 0.4	25.2 ± 0.7	52.8 ± 0.9	61.0 ± 0.1
SCb (5 mM)	4.6 ± 0.1	10.4 ± 0.3	21.4 ± 0.7	43.8 ± 0.6	56 ± 3
SCc (15 mM)	5.1 ± 0.1	12.0 ± 0.3	21.0 ± 0.8	48 ± 1	53 ± 2
BS ^b (30 mM)			39.1 ± 0.1		98.0 ± 0.1

^aT = 25 °C; μ = 0.2 M (KCl). ^bSodium 4-hydroxybenzenesulfonate used as model host monomer.

Table S2: Observed rate constants for deamination of **PB** in 0.132 N NaOH aqueous solution as a function of p-sulfonated calixarenes concentration.^a

[Host], mM	$k_{\text{obs}}, 10^{-3} \text{ s}^{-1}$	
	SCa	SCb
0.5	9.97 ± 0.05	9.88 ± 0.01
1.0	9.21 ± 0.03	8.54 ± 0.02
2.0	8.51 ± 0.04	7.21 ± 0.01
4.0 ^b	7.21 ± 0.04	5.91 ± 0.02
5.0	6.69 ± 0.01	5.35 ± 0.02
7.0 ^c	6.10 ± 0.04	4.28 ± 0.05

^aT = 25 °C; μ = 0.2 M (KCl). ^b3.5 mM for **SCb**. ^c6.5 mM for **SCb**.