Supplementary material

Table S1: Comparison of synthesis conditions for CEC tests with NaP1 and 4A zeolites.

Sample	Synthesis							Yield		$CEC_{(NH_4^+)}$	$CEC_{(Ca^{2+})}$
	Solubilization		Hydrothermal treatment				Leaching				
	β-spod	NaOH	Na_2CO_3	NaOH [1]	$NaAlO_2$	Time [2]	NH_4HCO_3	Li_2CO_3	zeolite		
	g	mol/L	g	mol/L	mol/L	min	mol/L	%Li_2O	% [3]	meq_{NH_4Cl}/g	meq_{CaCl_2}/g
1	6.0	0.22	1.6	3.3	30	30	0.16	18	25	0.3	2.0
2	6.0	0.22	1.6	3.3	30	240	0.16	82	42	0.8	3.6
3 (LPM-15)	6.0	0.22	1.6	3.3	30	360	0.16	77	73	2.2	4.1
NaP1 [4]	–	3.0	–	–	–	240	–	–	–	2.5	–
4A [4]	–	3.0	–	–	–	240	–	–	–	–	4.5

[1] recirculated mother liquor; [2] 368 K/autoclave; [3] [$g_{(synthesized)}/g_{(zeolite\ IZA)}$]; [4] synthesis based on IZA.