

FTIR analysis of sugarcane bagasse with and without addition of zeolite and NaOH at different ratios

Wave number (cm <sup>-1</sup> )				Functional group
100:0:0 (R0)	98.4:0.1:1.5 (R1)	97.7:0.3:2.0 (R2)	97:0.5:2.5 (R3)	
3523.95	3442.93	3441.01	3342.64	–CH and –OH stretching vibration
3311.78	3271.27	3327.21	3284.77	O–H stretching of hydroxyl
2916.37	2916.37	2916.37	2916.37	C–H stretching
2850.79	2850.79	2850.79	2850.79	C–H stretching
1732.08	1732.08	1732.08	1732.08	C=O stretching
1604.77	1604.77	1604.77	1604.77	C=O stretching
1373.32	1373.32	1456.26	1456.26	C-H alkanes and C-O stretching
1242.16	1242.16	1242.16	1242.16	C=C aromatic, aryl-O-stretching
1165	1165	1165	1163.08	C–OH
1111	1107.14	1111	1109.07	O-Si-O asymmetric vibrations C-N stretching
1068.56	1053.13	1064.71	1053.13	C-O
-	-	898.83	-	C-H
-	833.25	-	833.25	C-O stretching O-H deformation
611.43	-	-	-	O=C–N deformation