	Position, cm ⁻¹						
Assignment of vibration							
	Ref*	bKMC**	tKMC	TrKMC	tKMC	IKMC	iKMC
					/MGR		
Inter-OH	3394	3396	3314	3395	-	3308	-
OH, NH, proteins							
3300-3400							
Asymmetric C-H stretching in CH ₃	2960	2957	2960	2963	2959	2961	2961
Asymmetric C-H stretching in CH ₂	2929	2923	2925	2933	2933	2925	2925
Amide I	1655	1656	1655	1654	1648	1652	1655
C=0							
Amide II bond in proteins	1540	1536	1540	1542	1540	1542	1540
Scissoring C-H bending vibration in CH2-	1450	1440	1449	1449	1445	1447	1459
groups of lipids							
CH3 in lipids	1397	1397	1399	1396	1399	1400	1398
Amide III bond in proteins	1311	-	1312	1306	1311	1313	1313
-P=O asymmetric vibration in -PO ₂ -	1224	1230	1238	1229	1233	-	-
groups							
v(C-C) ring breathing, asymmetric	1155	1147	1154	1152	1147	1146	1155
C-O stretching in COH/C-O-C	1105	1100	1102	1110	1110	1112	1110
β-C1-O-C4	1095,	1099,	1099,	1092,	-	1090,	1092,
glycosidic	993	992	992'	1002	-	995	992
-CH- stretching vibration at C ₃	1078	1076	1074	1075	1073	1078	1078
Skeletal vibrations involving C-	1035	1028	1032	1033	1033	1035	1035
O stretching at C ₆							
The stretching vibration at C ₃ -O ₃	1001	1001	-	1001	1008	1001	1001
OH stretching in cellulose structure due to	748	731	743	747	747	747	747
Ia crystalline phase							

* Ref. (Fuller et al., 2018; Eckel et al., 2001; Sheng et al., 2013; Sekkal et al., 1995) ** bKMC – KMC samples located at a bottom level of a tray; tKMC - KMC samples located at a top level of a tray; tKMC/MGR - KMC samples located at a top level of a tray in Mission Ground Reference experiment (DLR, Cologne, Germany); TrKMC – a transportation control KMCs; lKMC – laboratory kept KMCs.