Band wavenumber (cm^{-1})	Assignment of IR spectra
3300	O−H stretch/N−H stretch
2940	C−H stretch
2890	C−H stretch
2700	O−H stretch
1720	C=O, xylan
1650	C=O stretch, C=C, amide I
1600	C=O stretch (lignin), C=C, amide I
1510	C=O stretch (lignin), amide II
1450	CH_2 deformation (lignin and xylan)
1425	Aromatic skeletal combined with C−H
1350	C−H deformation (ring)
1300	N−H C−H deformation, amide III
1270	C=O stretch (lignin), amide III
1240	C−O, C−N, C−N−C, C−C−O of phenolic compounds, amide III
1200	Phosphate, C−C−O of phenolic compounds
1140	C−O−C stretching (pyranose rings), C=O stretching (aliphatic groups), guanine, tyrosine, tryptophane
1110	Sugar skeletal vibration
1070	C−H stretch, C−C stretch
1050	C−H stretch, C−C stretch, guaiacyl units (lignin)
990	OCH_3 (polysaccharides)
920	C=C, cellulose P-chains, polysaccharides – β-linkage, phenolic compounds
850	C−O−C skeletal mode (polysaccharides – α-linkage, COPOC RNA, phenolic compounds
810	C=O deformation (polysaccharides), phenolic compounds
770	Phosphate stretch