

Figure 1. FTIR spectrum of LPLPB

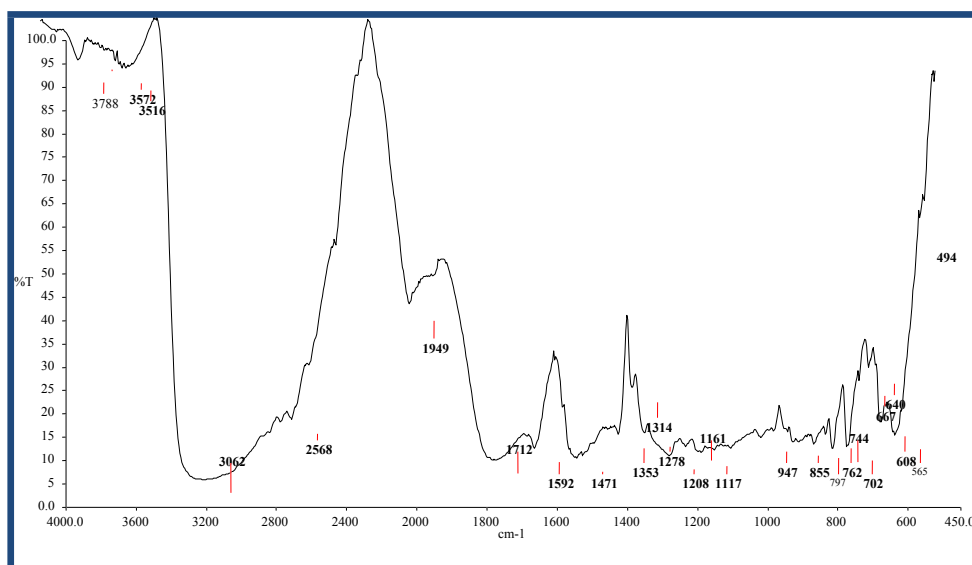


Table 1. FT-IR functional group assignments of LPLPB

Wavenumber(cm⁻¹)	Assignments
494	N-C-N Asymmetric bending
608	Bending O-C-O
640	vibration of P-O-P in chain
667	C-C in plane deformation band
702	phenyl ring out of plane ring deformation
740	phenyl ring out of plane CH deformation
855	C-C stretching
947	NH ₃ ⁺ rocking vibration
1117	NH ₃ ⁺ symmetric deformation
1161	NH ₃ ⁺ rocking
1208	phenyl ring - carbon stretching
1314	C-N stretching vibration
1353	C - H deformation (chain)
1471	asymmetric CH ₃ ⁺ bending
1592	NH ₃ ⁺ Bending
1712	C = O stretching
1949	C=C stretching
2568	NH ₃ ⁺ absorption bands at 2844 cm ⁻¹
3062	NH ₃ ⁺ symmetric stretching
3572	Sharp OH Stretching band