

Lignin-Mediated Biosynthesis of ZnO and TiO₂ Nanocomposites for Enhanced Antimicrobial Activity

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SEI-1

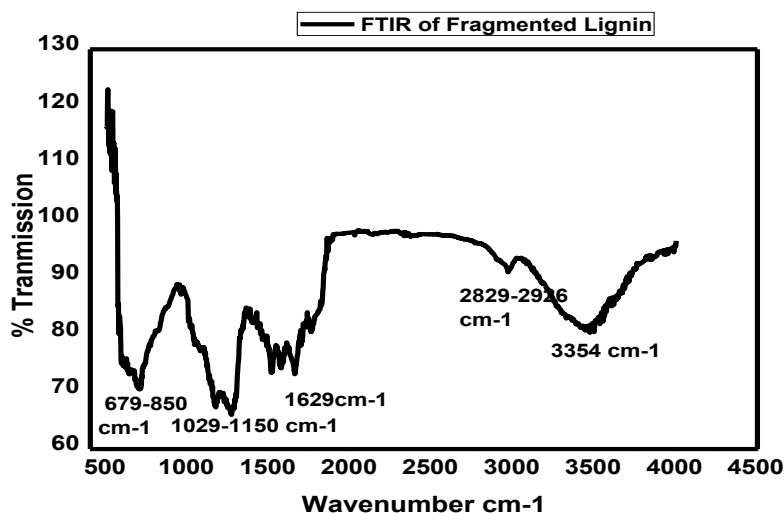


Figure S1. FTIR of Fragmented Lignin

SEI-2

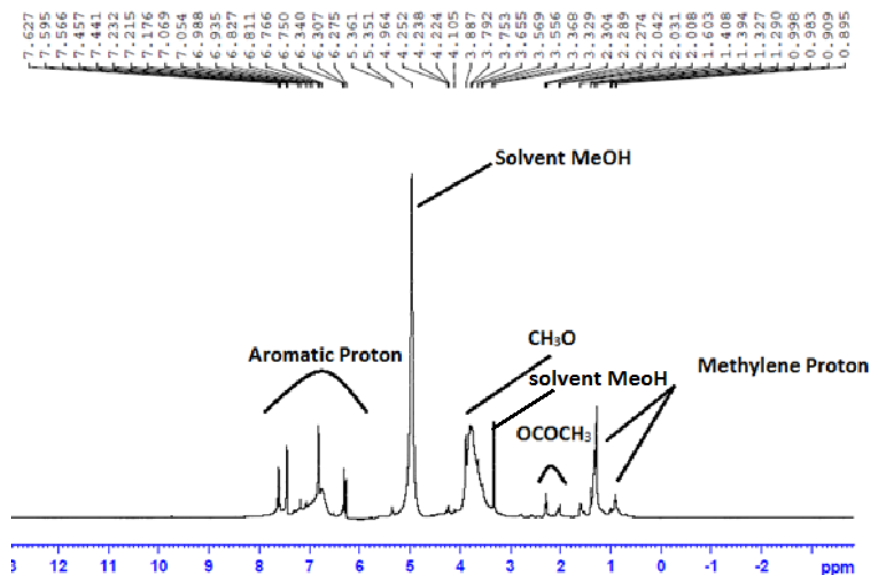


Figure S2. ¹H-NMR of Fragmented Lignin

SEI-3

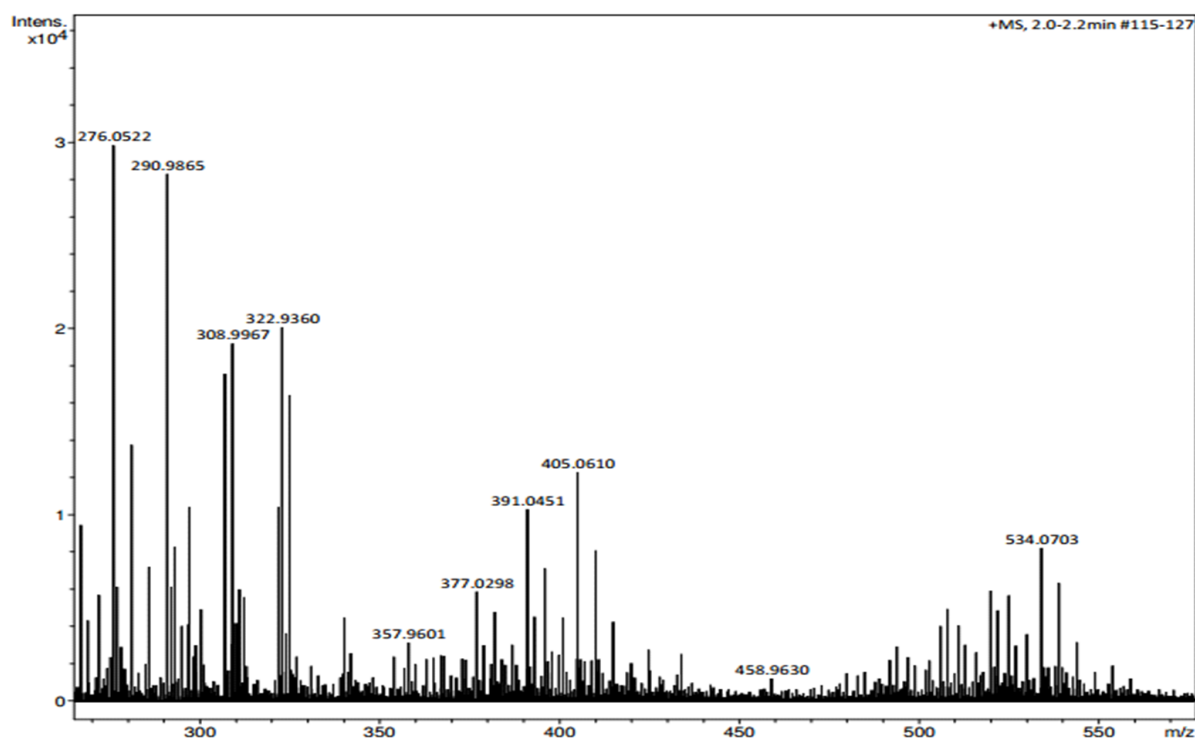


Figure S3. HRMS of Fragmented Lignin

1st fragment at $m/z=276$ show 4-(4-(hydroxymethyl)-3-methoxyphenoxy)-2-methoxyphenol.

2nd fragment shows β -etheral linkage at $m/z=290$.

3rd fragment for Sinapic acid (3-(4-hydroxy 3,5-dimethyl phenyl) prop2-enoic- acid [33]. having m/z at 322.

4th The dimeric fragment at 405 m/z [34].

5th fifth fragment at 534 m/z for β -O-4 dimer with attachment of different carbon atom or $-\text{CH}_2$ group present in the molecule.