




SUPPLEMENTARY MATERIALS**Development of Novel Wheat Waste-Derived Biochar and Its Potential in
Pharmaceutical Wastewater Treatment**

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List of Content

FTIR spectrum of the intermediate biochar product after the first carbonization stage (Figure S1).	S2
FTIR peak assignments to the FTIR spectrum given in Figure S1 (Table S1).	S3
References	S4

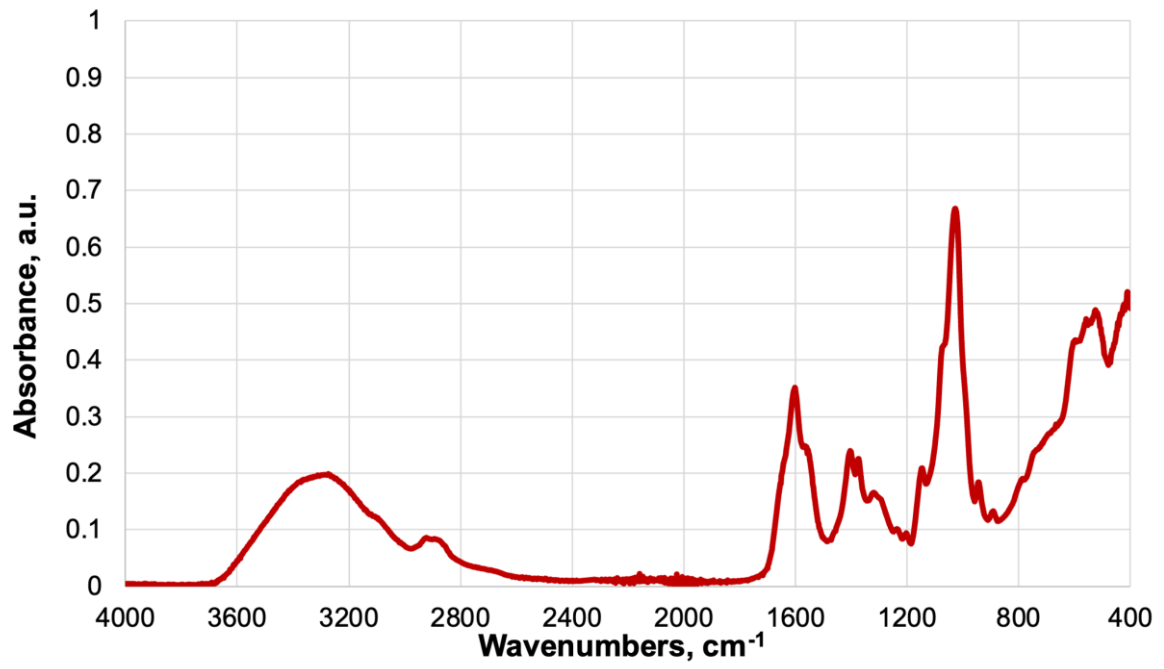


Figure S1. FTIR spectrum of the intermediate biochar product after the first carbonisation stage

Table S1

FTIR peak assignments to the FTIR spectrum given in Figure S1

FTIR peak position	Functional group(s)	Ref-s
3295	O-H stretch (carboxylic group or alcohol)	[1]
2906, 2875	C-H stretch (alkyl CH)	[1,2]
1599, 1552	C=C stretch (aryl, double-bond)	[2]
1399, 1373	CH ₃ -, CH ₂ - (aliphatic chains)	[3]
1312	C-H stretch (aliphatic chains)	[4]
≈1141	O-H stretch (carboxylic group) Aromatic ring stretching vibration or C-O stretching vibration	[5] [3]
1024	C-OC/C-OH stretches	[1]
941 (995-905)	C-O stretch in cellulose	[6]
≈595-593	Out-of-plane-vibrations of associated OH groups	[7]

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