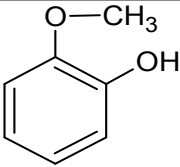
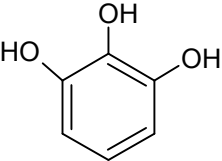
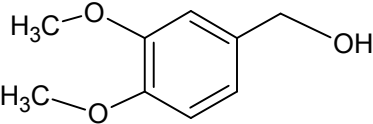
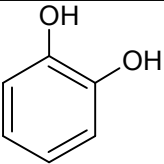
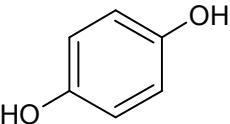
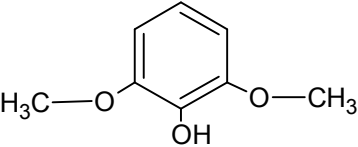
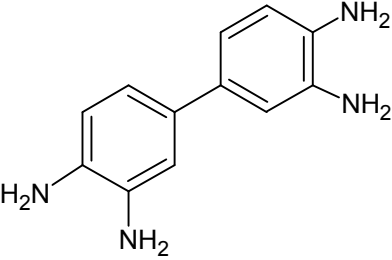
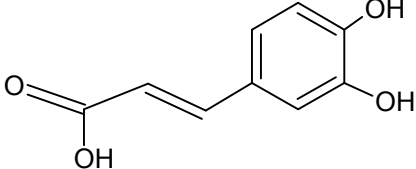
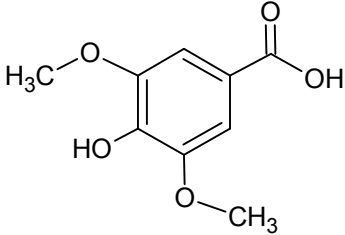
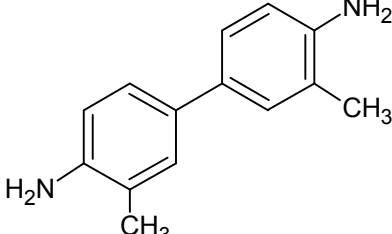
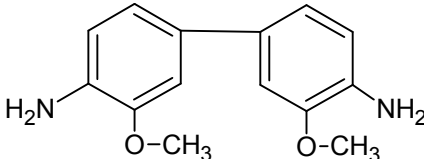
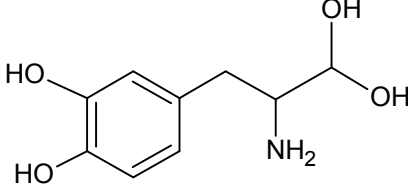
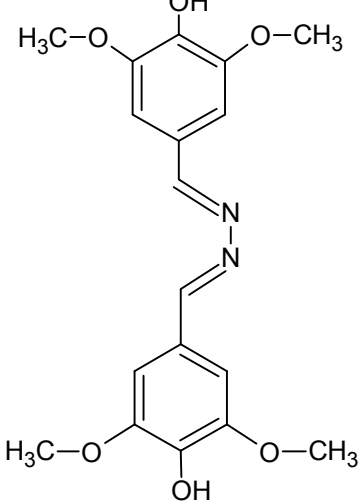


Table S1 Oxidation of phenolic and nonphenolic compounds in the presence of ABTS using purified laccase

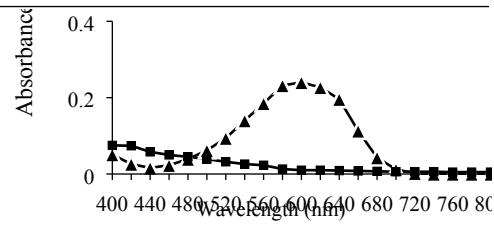
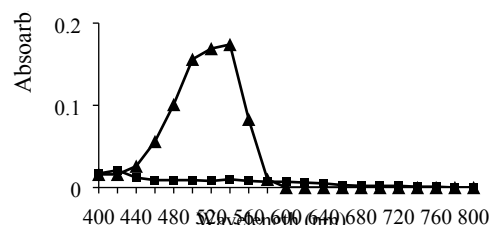
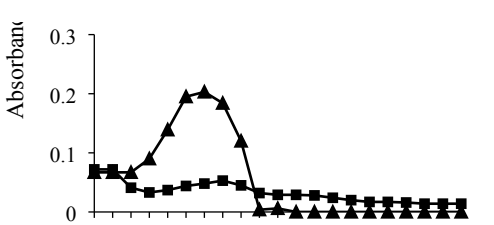
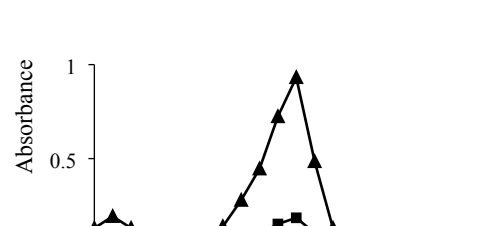

Substrates	Structures	λ_{\max} (nm)	Specific activity*
Guaicol		465	10.25
Pyrogallol		450	2.50
Veratryl alcohol		310	ND
Catechol		392	ND
Hydroquinone		248	ND
2,6-dimethoxyphenol		468	22.5
DAB		420	ND
Caffeic acid		420	ND

Syringic acid		272	ND
<i>o</i> -tolidine		366	42.83
<i>o</i> -danisidine		460	15.16
L-DOPA		470	3.30
Syringaldazine		525	8.16

*U mg⁻¹ of protein min⁻¹

ND, Not Detected

Table S2 Decolorization performance of purified laccase in presence of ABTS

Name of the dye	% Decolorization	Time	Spectra
Brilliant Blue R	95.9	5 min	 <p>The graph shows Absorbance on the y-axis (0 to 0.4) and Wavelength (nm) on the x-axis (400 to 800). Two curves are plotted: one with triangles and one with squares. The triangle curve shows a broad peak centered around 600 nm with a maximum absorbance of approximately 0.25. The square curve remains relatively flat and low, near zero, across the entire wavelength range.</p>
Reactive Red 2	94.2	0.5 h	 <p>The graph shows Absorbance on the y-axis (0 to 0.2) and Wavelength (nm) on the x-axis (400 to 800). Two curves are plotted: one with triangles and one with squares. The triangle curve shows a sharp peak at approximately 520 nm with a maximum absorbance of about 0.18. The square curve is very low, near zero, across the entire wavelength range.</p>
Direct Red 5B	76.5	0.5 h	 <p>The graph shows Absorbance on the y-axis (0 to 0.3) and Wavelength (nm) on the x-axis (400 to 800). Two curves are plotted: one with triangles and one with squares. The triangle curve shows a peak at approximately 520 nm with a maximum absorbance of about 0.22. The square curve shows a broad, low absorbance across the range, peaking slightly around 500 nm at approximately 0.05.</p>
Malachite Green	80.1	2 h	 <p>The graph shows Absorbance on the y-axis (0 to 1) and Wavelength (nm) on the x-axis (400 to 800). Two curves are plotted: one with triangles and one with squares. The triangle curve shows a sharp peak at approximately 620 nm with a maximum absorbance of about 0.9. The square curve shows a broad peak around 550 nm with a maximum absorbance of about 0.2.</p>
Methyl Orange	49.2	2 h	 <p>The graph shows Absorbance on the y-axis (0 to 0.8) and Wavelength (nm) on the x-axis (400 to 800). Two curves are plotted: one with triangles and one with squares. The triangle curve shows a peak at approximately 460 nm with a maximum absorbance of about 0.75. The square curve shows a broad peak around 440 nm with a maximum absorbance of about 0.4.</p>