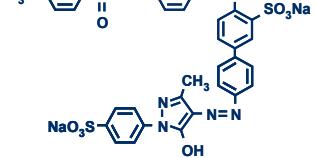
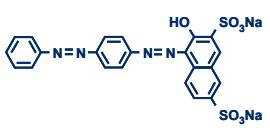
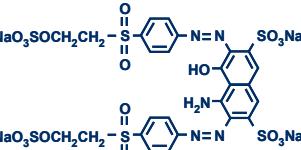
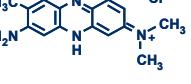
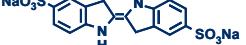
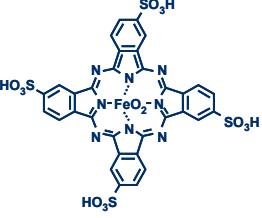
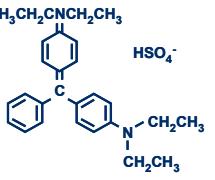
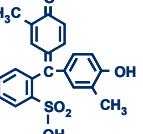
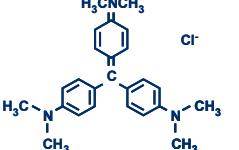


Induction of Extracellular Hydroxyl Radicals Production in the White-Rot Fungus *Pleurotus eryngii* for Dyes Degradation: An Advanced Bio-oxidation Process

Table S1. Dyes used in the present study, showing their names and abbreviations, chemical structures, and absorption maxima in the visible spectrum, determined at pH 2.

Type	Name (abbreviation), λ_{max}	Name (abbreviation), λ_{max}	Name (abbreviation), λ_{max}
Anthraquinone	Acid Black 48 (AB48), 657 nm 	Acid Blue 45 (AB45), 587 nm 	Acid Green 25 (AG25), 608 nm
	Reactive Blue 19 (RB19), 592 nm 		
Azo	Acid Red 88 (AR88), 502 nm 	Acid Yellow 17 (AY17), 402 nm 	Chromotrope 2R (C2R), 505 nm
	Crocein Orange G (COG), 480 nm 	Methyl Orange (MO), 474 nm 	New Coccine (NC), 506 nm
	Orange II (OII), 485 nm 	Tartrazine (TA), 427 nm 	Tropaeolin O (TO), 388 nm

Table S1. Continuation.

Type	Name (abbreviation), λ_{\max}	Name (abbreviation), λ_{\max}	Name (abbreviation), λ_{\max}
Diazo	Acid Black 24 (AB24), 608 nm 	Acid Blue 113 (AB113), 549 nm 	Acid Orange 63 (AO63), 425 nm 
	Ponceau SS (PSS), 513 nm 	Reactive Black 5 (RB5), 596 nm 	
	Azure B (AB), 645 nm 	Neutral Red (NR), 530 nm 	
Indigo Phthalocyanine	Indigo Carmine (IC), 609 nm 	Iron(III)phthalocyanine (I3P), 631 nm 	
Triarylmethane	Brilliant Green (BG), 624 nm 	Bromophenol Blue (BB), 436 nm 	Cresol Red (CR), 434 nm 
	Crystal Violet (CV), 597 nm 	Methyl Blue (MB), 601 nm 	

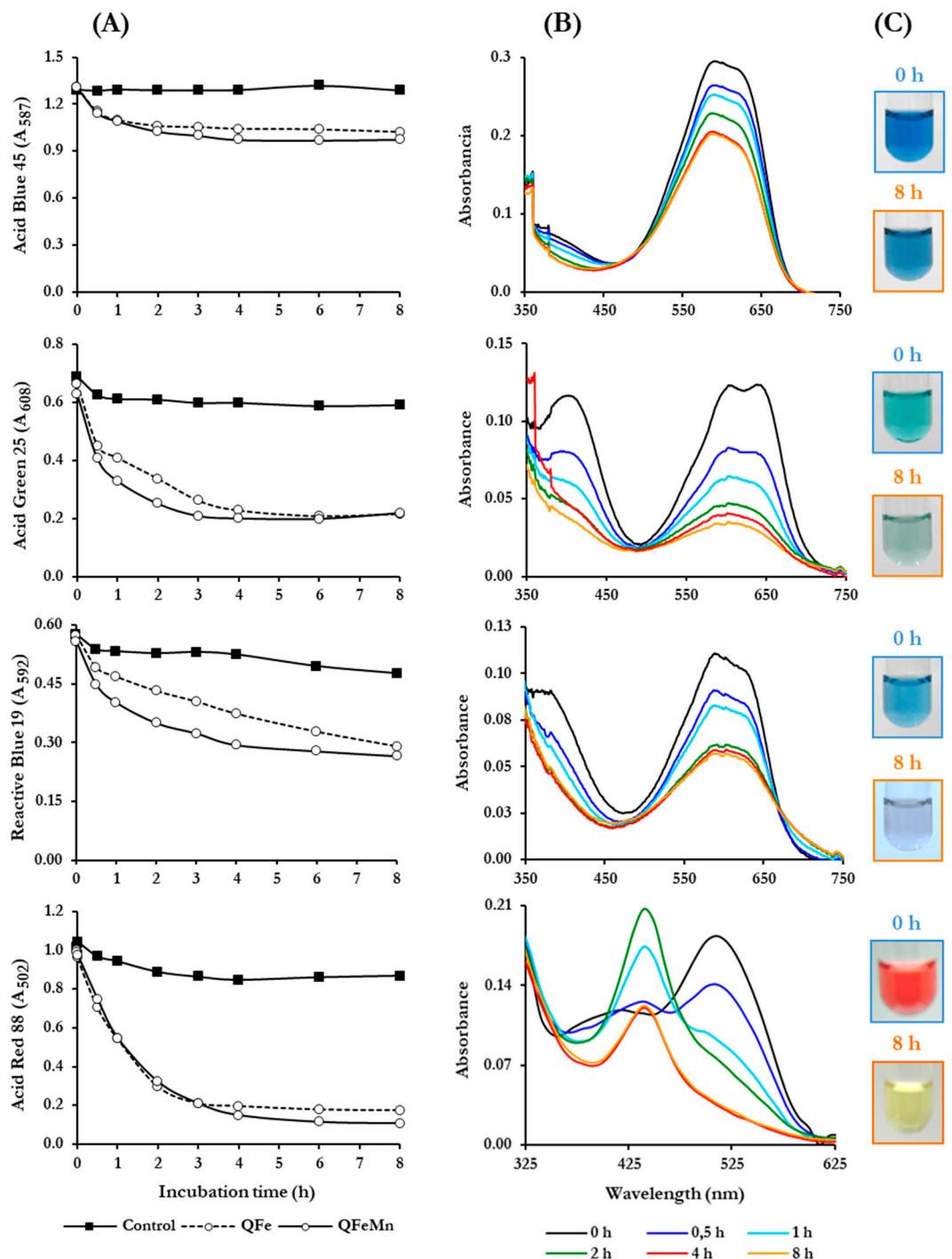


Figure S1. Advanced oxidation of dyes by *P. eryngii*. (A) Time course of decolorisation at λ_{max} of each dye; (B) changes in visible spectra of diluted samples from incubations with Mn^{2+} along the incubation time; (C) pictures of QFeMn incubation samples taken at 0 and 8 hours. Incubations contained 7-day-old washed mycelium (50 ± 5 mg, dry weight), 30 ml of 20 mM phosphate buffer, pH 5.0, dyes 50 μM , DBQ 500 μM , Fe^{3+} 100 μM -Oxalate 300 μM (incubation QFe) and Mn^{2+} 100 μM (incubation QFeMn). Control incubations lacked DBQ, iron complex and Mn^{2+} .

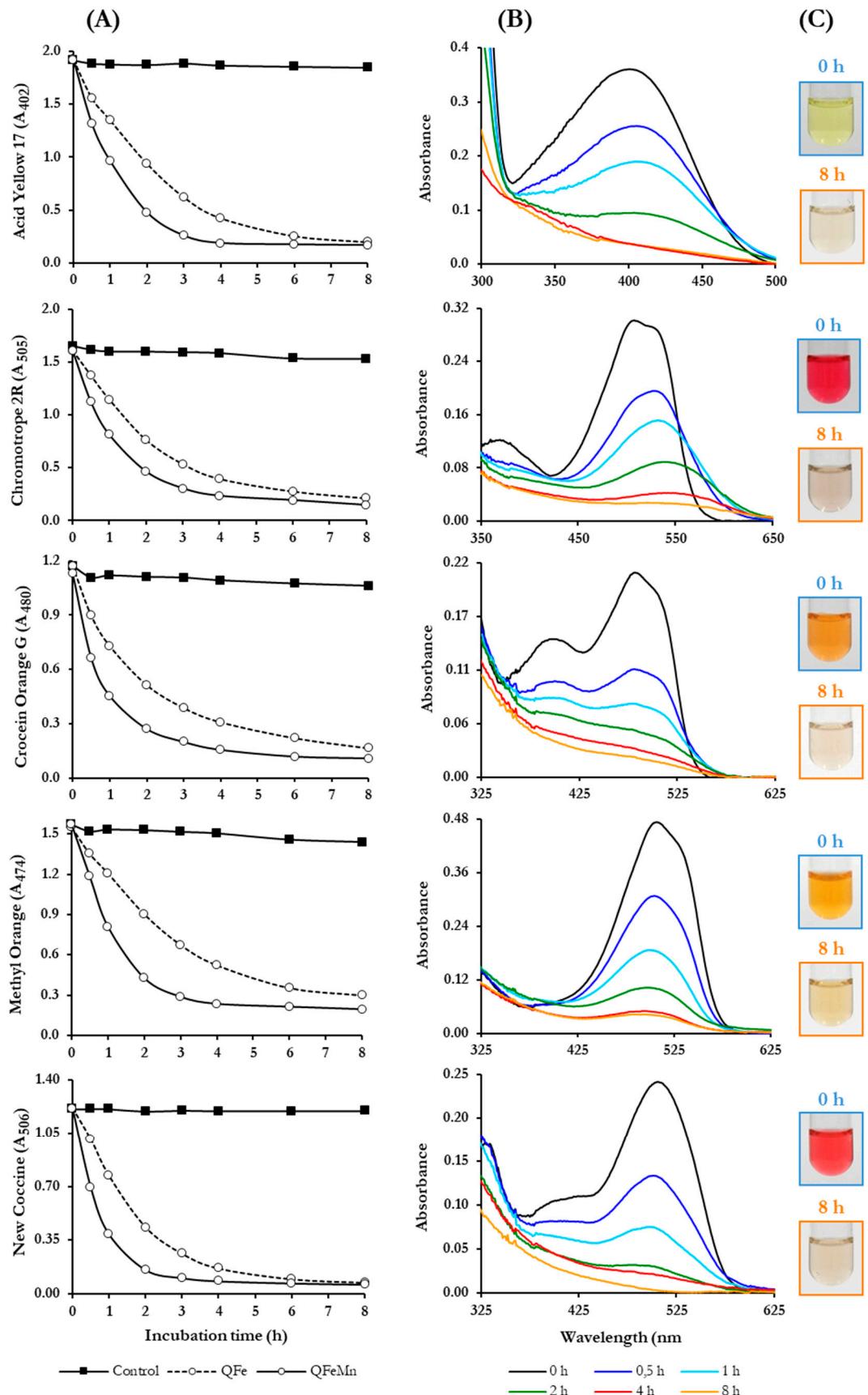


Figure S1. Continuation.

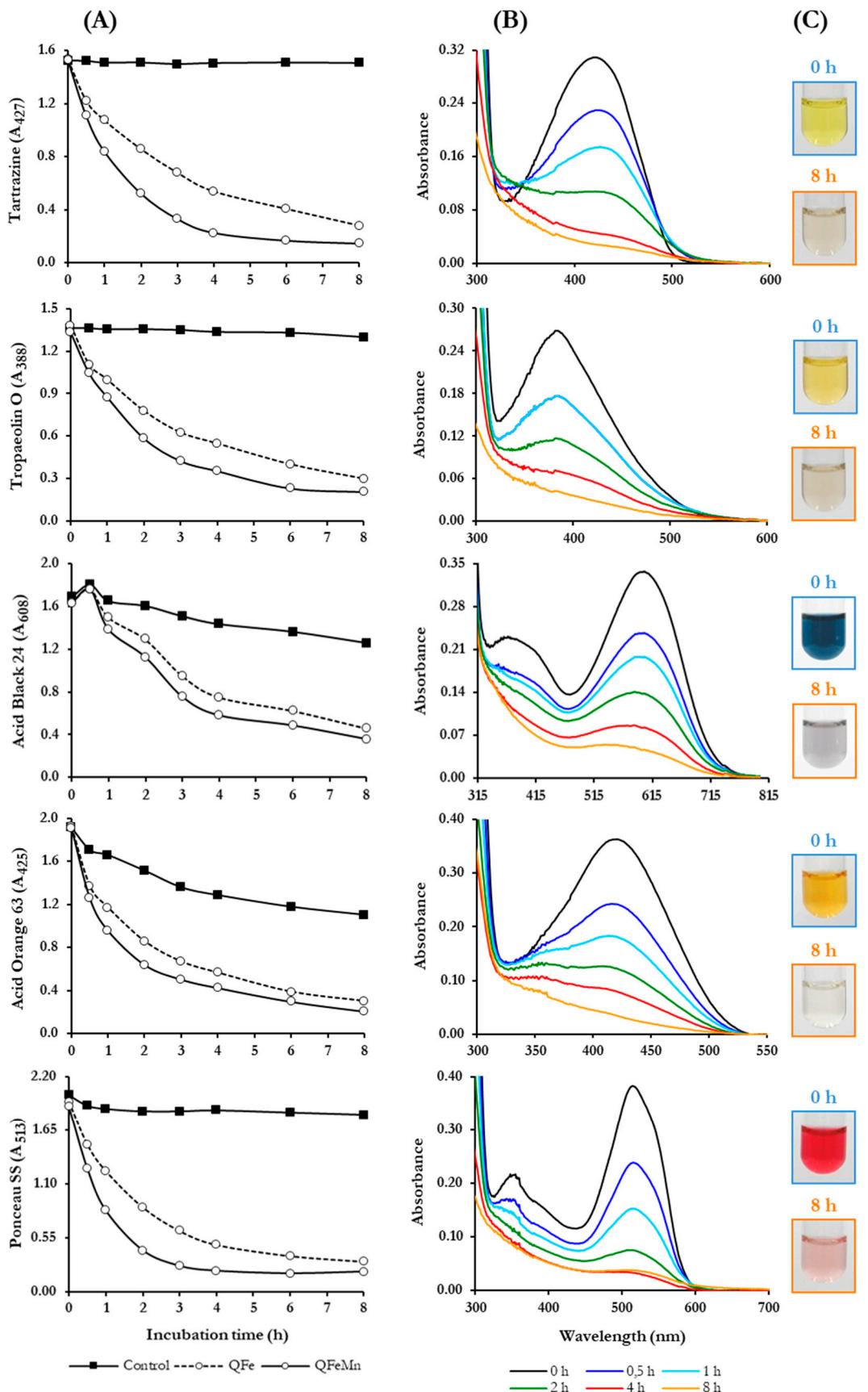


Figure S1. Continuation.

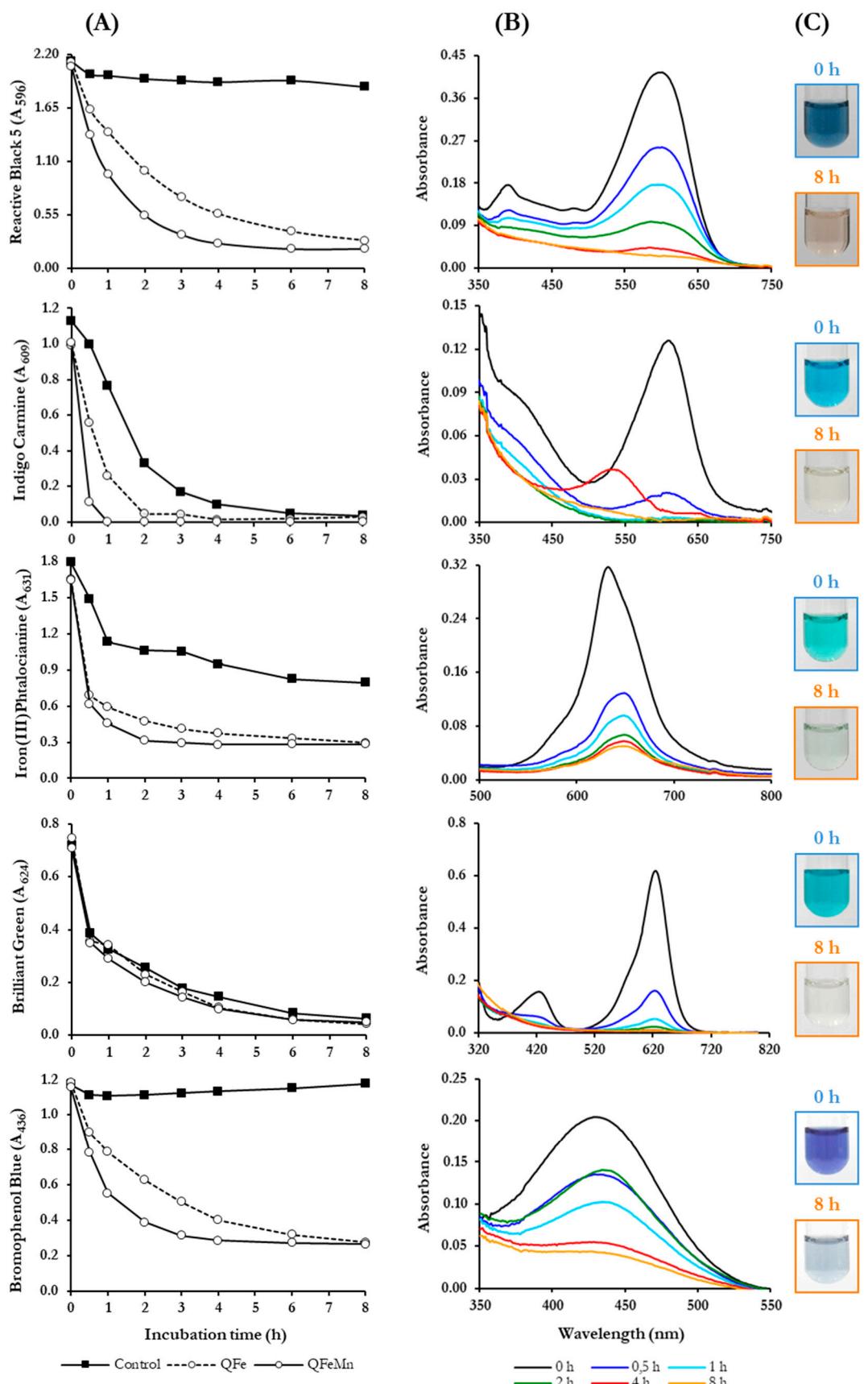


Figure S1. Continuation.

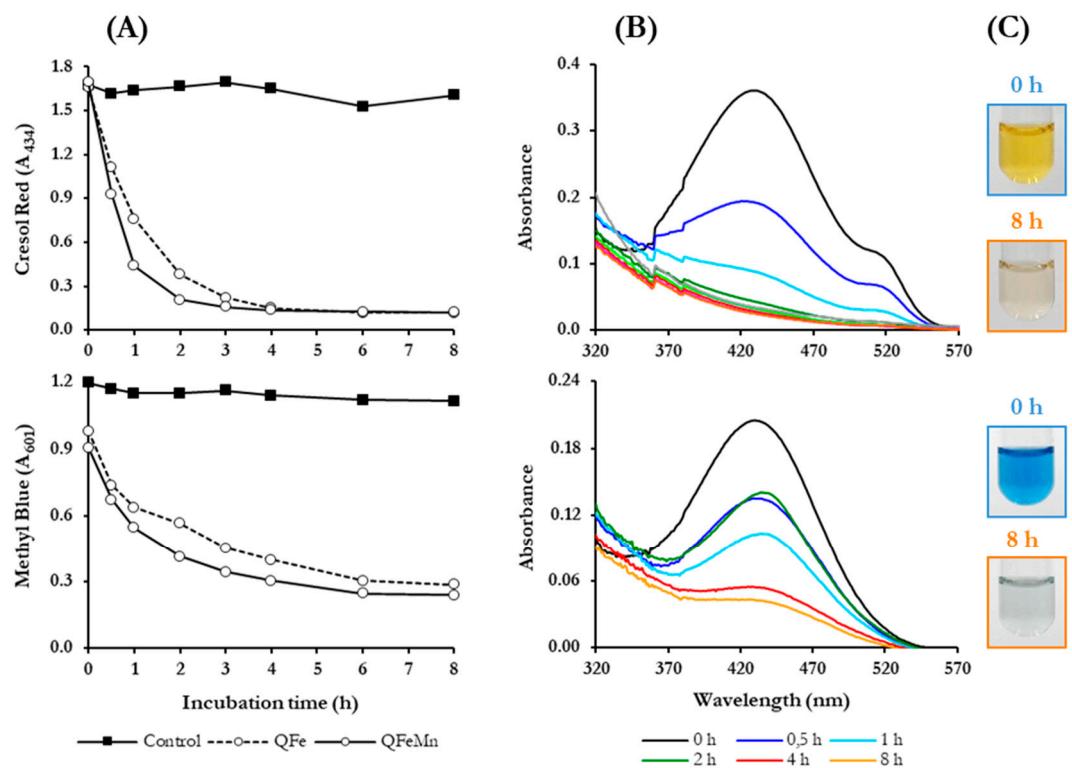


Figure S1. Continuation.

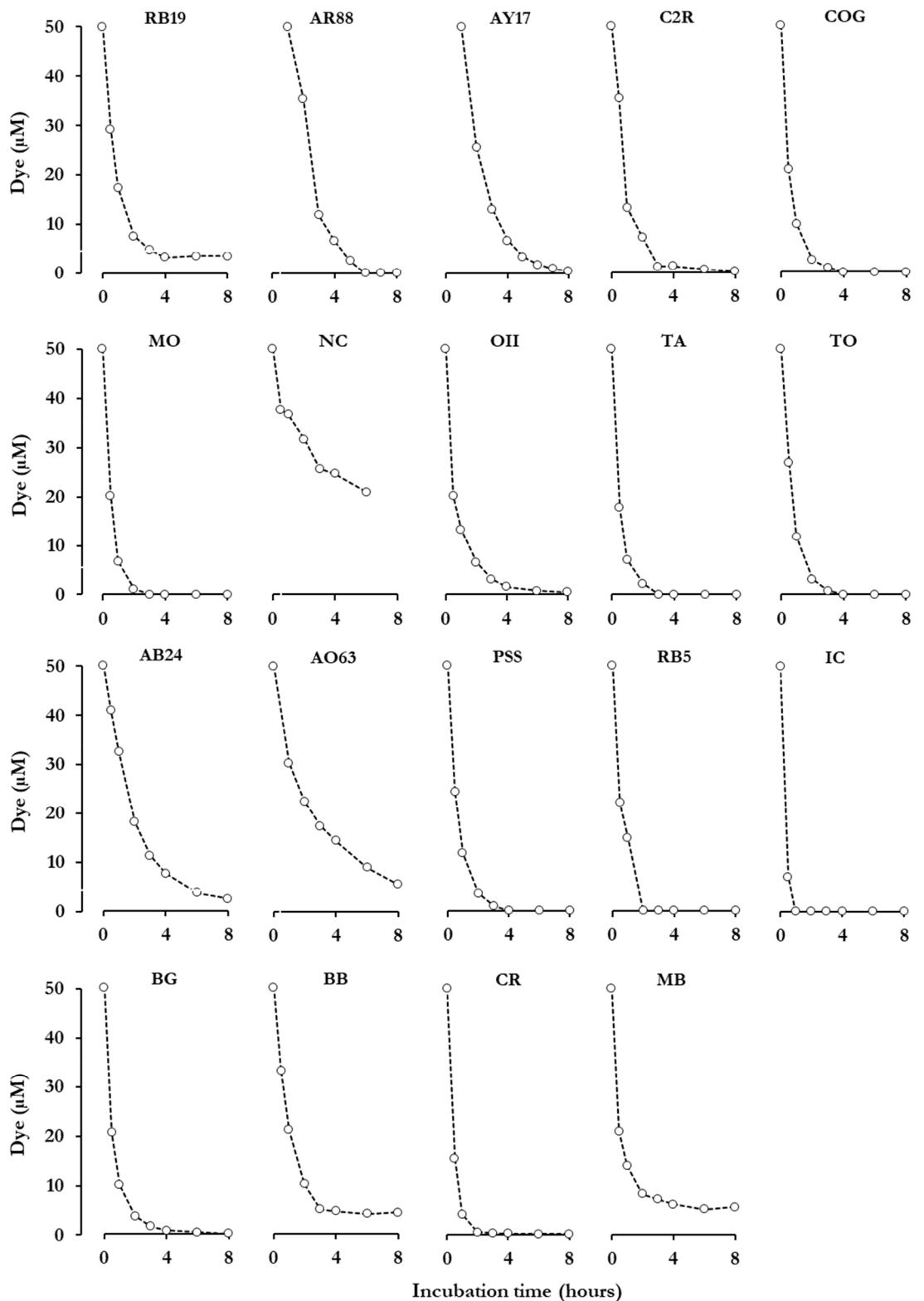


Figure S2. Advanced biooxidation of dyes by *P. eryngii*, analysed by HPLC. Incubations contained 7-day-old washed mycelium ($50 \pm 5 \text{ mg}$, dry weight), 30 ml of 20 mM phosphate buffer, pH 5.0, dyes 50 μM , DBQ 500 μM , Fe^{3+} 100 μM -Oxalate 300 μM and Mn^{2+} 100 μM (QFeMn incubation). Control incubations, which lacked DBQ, iron complex and Mn^{2+} , were analysed spectrophotometrically and the results are shown in Figure S1.