## Supplementary Information for

## Biodegradation of synthetic dyes by free and cross-linked peroxidase in microfluidic reactor

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## Supplementary Figure S1



Fig. S1. FT-IR spectra of native and oxidized pectin.

## Supplementary Figure S2



Fig. S2. The byproduct M1 identified by LC-MS analysis.

## Supplementary Figure S3

Fig. S3


Fig. S3. The byproduct M2 identified by LC-MS analysis.

## Supplementary Figure S4

Fig. S4.


Fig. S4. The byproduct M3 identified by LC-MS analysis.

## Supplementary Figure S5

Fig.S5


Fig. S5. The byproduct M4 identified by LC-MS analysis.

## Supplementary Figure S6

## Fig.S6



Fig. S6. The byproduct M5 identified by GC-MS analysis.

## Supplementary Figure S7

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Fig. S7. The byproduct M6 identified by GC-MS analysis.

## Supplementary Figure S8

Fig.S8


Fig. S8. The ( $\mathrm{Br}^{-}$) identified by LC-MS analysis.

## Supplementary Figure S9

Fig.S9


Fig. S9. The ( $\mathrm{SO}_{4}^{-}$) identified by LC-MS analysis.


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