

# Expression of a new laccase from *Moniliophthora roreri* at high levels in *Pichia pastoris* and its potential application in micropollutant degradation

Agathe Bronikowski<sup>1</sup>, Peter-Leon Hagedoorn<sup>2</sup>, Katja Koschorreck<sup>1</sup>, Vlada B. Urlacher<sup>1,\*</sup>

<sup>1</sup>Institute of Biochemistry and Bioeconomy Science Center (BioSC), Heinrich-Heine University Düsseldorf, Universitätsstraße 1, 40225 Düsseldorf, Germany

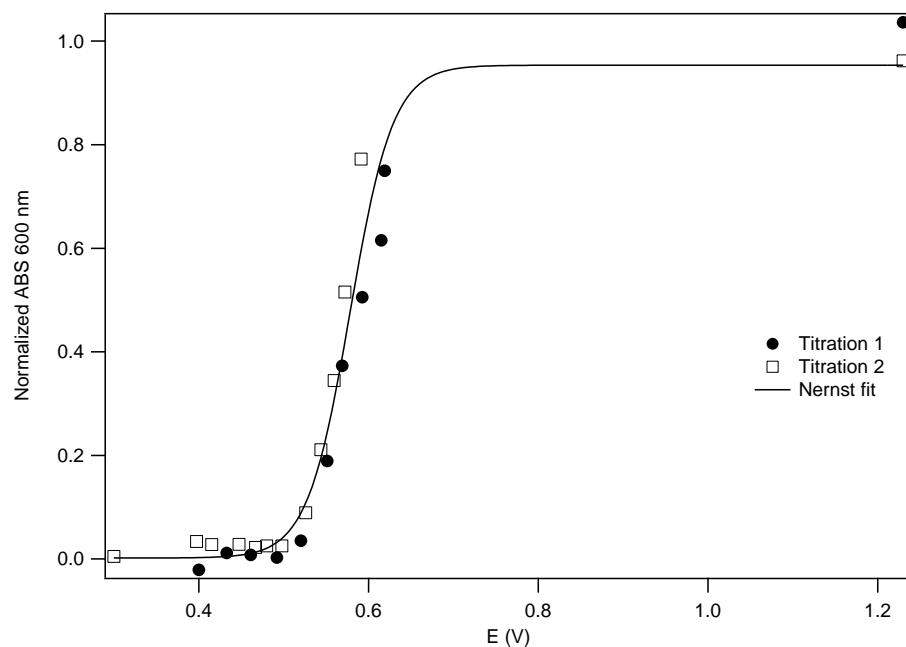
<sup>2</sup>Department of Biotechnology, Delft University of Technology, Julianalaan 67, 2628 BC Delft, The Netherlands

\* Corresponding author

Vlada B. Urlacher

Institute of Biochemistry II  
Heinrich-Heine University Düsseldorf  
Universitätsstraße 1  
40225 Düsseldorf, Germany  
Tel.: +49-211-8113889  
Fax.: +49-211-8113117

e-mail: vlada.urlacher@uni-duesseldorf.de



**Figure S1.** Results of two independent redox titrations with MrI2 (21-26 µM) and the  $[\text{Fe}(\text{CN})_6]^{3-}$  /  $[\text{Fe}(\text{CN})_6]^{4+}$  redox mediator couple. The fully oxidized sample was set to 1.23 V. Fit to Nernst curve:  $Y = \frac{A}{1+e^{\frac{nF}{RT}(E_m-E)}} + B$ . Fixed parameters:  $n = 1$ ;  $T = 293$  K. Fit parameters:  $A = 0.95 \pm 0.04$ ;  $B = 0.00 \pm 0.02$ ;  $E_m = 0.578 \pm 0.004$  V.