

## Photosensitizer-Loaded Hydrogels for Photodynamic Inactivation of Multiresistant Bacteria in Wounds – Supporting Information

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Sarah Glass<sup>1</sup>, Mathias Kühnert<sup>1</sup>, Norman Lippmann<sup>2</sup>, Joanne Zimmer<sup>1</sup>, Robert Werdehausen<sup>3</sup>, Bernd Abel<sup>1</sup>, Volker Eulenburger<sup>3</sup>, Agnes Schulze<sup>1\*</sup>

**Table S1.** Antibiotic resistance pattern of ESBL *E. coli* Seq. no. 443733 (S(ensible)/R(esistant)/I(ntermediate)).

Agent	MIC (minimal inhibitory concentration) [µg/ml]	S/R/I
Piperacillin	> 128.00	R
Piperacillin/Tazobactam	< 4.00	S
Cefotaxime	> 64.00	R
Ceftazidime	16.00	R
Aztreonam	16.00	R
Imipenem	< 0.25	S
Meropenem	< 0.25	S
Gentamicin	< 1.00	S
Amikacin	< 2.00	S
Trobamycin	< 1.00	S
Colistin	< 0.50	S
Fosfomycin	< 16.00	S
Ciprofloxacin	> 4.00	R
Moxifloxacin	> 8.00	R
Tigercyclin	< 0.50	S
Cotrimoxazol	<20.00	S

**Table S2.** Antibiotic resistance pattern of VRE *E. faecium* Seq. no. 432107 (S(ensible)/R(esistant)/I(ntermediate)).

Agent	MIC (minimal inhibitory concentration) [µg/ml]	S/R/I
E-Teicoplanin	32.00	R
E-Vancomycin	>256.00	R

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<sup>1</sup> Leibniz Institute of Surface Engineering (IOM), Permoserstraße 15, D-04318 Leipzig, Germany

<sup>2</sup> Institute of Medical Microbiology and Epidemiology of Infectious Diseases, University Hospital Leipzig, Liebigstraße 21, D-04103 Leipzig

<sup>3</sup> Department of Anesthesiology and Intensive Care Medicine, University Hospital Leipzig, Liebigstraße 20, D-04103 Leipzig

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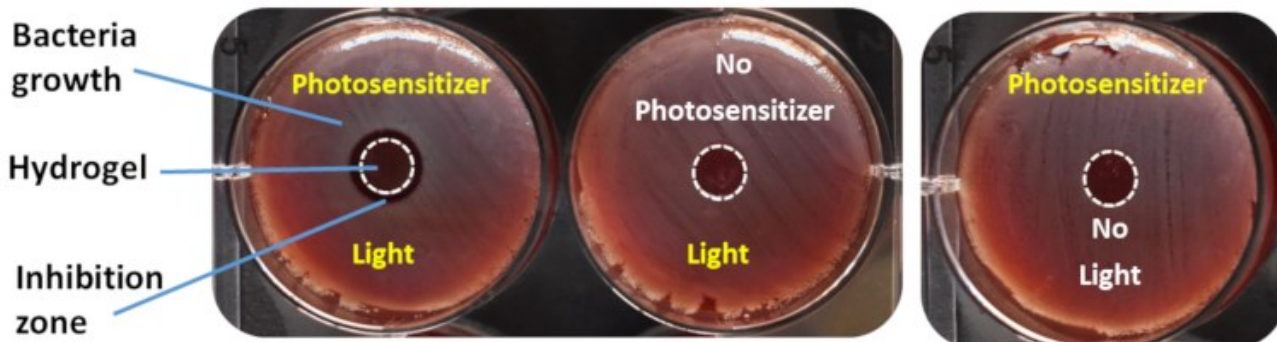
**Table S3.** Antibiotic resistance pattern of MRSA *S. aureus* Seq. no. 617953 (S(ensible)/R(esistant)/I(ntermediate)).

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Agent	MIC (minimal inhibitory concentration) [µg/ml]	S/R/I
Penicillin G	> 4.00	R
Oxacillin	> 8.00	R
Ampicillin /Sulbactam	16	R
Piperacillin/Tazobactam	> 64.00	R

**Table S5.** Antibiotic resistance pattern of *P. aeruginosa* Seq. no. 119769 (S(ensible)/R(esistant)/I(ntermediate)/\*(no sufficient data about clinical effectivity)).

Agent	MIC (minimal inhibitory concentration) [ $\mu\text{g/ml}$ ]	S/R/I/*
Ampicillin	> 32.00	R
Ampicillin /Sulbactam	> 32.00	R
Piperacillin	> 64.00	R
Piperacillin/Tazobactam	> 64.00	R
Cefuroxim	> 32.00	R
Cefotaxime	> 8.00	R
Ceftazidime	> 32.00	R
Aztreonam	> 32.00	R
Imipenem	> 16.00	R
Meropenem	4.00	I
Gentamicin	1.00	S
Amikacin	1.00	S
Trobamycin	0.25	S
Colistin	1.00	S
Fosfomycin	64.00	*
Ciprofloxacin	1.00	R
Levofloxacin	2.00	R
Moxifloxacin	2.00	*
Doxycyclin	8.00	R
Tigercyclin	> 4.00	*
Cotrimoxazol	2.00	R
Nitroxolin	16.00	*
Mecillinam	8.00	*
E-Ceftazidime/Avibactam	2.00	S
E-Ceftolozan/Tazobactam	4.00	S
Imipenem	> 16.00	R
Meropenem	> 16.00	R
Gentamicin	> 512.00	R
Amikacin	> 64.00	R
Trobamycin	> 16.00	R
Colistin	> 8.00	*
Fosfomycin	> 128.00	*
Ciprofloxacin	> 4.00	R
Levofloxacin	8.00	R
Moxifloxacin	1.00	I
Doxycyclin	1.00	*

**Figure S1.** : Example of loaded hydrogel samples on blood agar plates. Left: Sample loaded with photosensitizer (THPTS) + illumination. Middle: Sample without photosensitizer + illumination (light control). Right: Sample loaded with photosensitizer without illumination (dark control). Hydrogels are surrounded by white dashed circles for better visualization.

E-Moxifloxacin	> 32.00	R
E-Piperacillin/Tazobactam	> 256.00	R
E-Rifampicin	> 32.00	R
E-Tigercyclin	0.25	S
E-Tobramycin	> 256.00	*