materials

Supplementary Materials: Novel Polyvinyl Butyral/Monoacylglycerol Nanofibrous Membrane with Antifouling Activity

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Table S1. Dependence of surface tension and electrical conductivity on the MAG 10 concentration in the all PVB solutions.

	Surface tension (mN/m)			Conductivity (uS/cm)		
MAG (wt%)	**8% PVB**	**10% PVB**	**12% PVB**	**8% PVB**	**10% PVB**	**12% PVB**
0	22.4 ± 0.02^{aA}	23.3 ± 0.12^{aB}	23.1 ± 0.09^{aC}	5.7 ± 0.04^{aA}	6.4 ± 0.07^{aB}	5.0 ± 0.08^{aC}
0.5	22.4 ± 0.01^{aA}	22.8 ± 0.06^{bB}	23.0 ± 0.02^{aC}	6.3 ± 0.08^{bA}	6.2 ± 0.05^{bA}	6.6 ± 0.56^{bA}
1	22.2 ± 0.03^{bA}	22.6 ± 0.03^{cB}	23.1 ± 0.08^{aC}	6.0 ± 0.04^{cA}	6.2 ± 0.11^{bB}	6.0 ± 0.07^{bA}
1.5	22.4 ± 0.02^{aA}	22.5 ± 0.01^{dB}	22.8 ± 0.02^{bC}	6.0 ± 0.05^{cA}	6.1 ± 0.07^{cA}	5.1 ± 0.07^{cB}
2	22.6 ± 0.03^{cA}	22.7 ± 0.04^{eB}	23.0 ± 0.01^{aC}	6.0 ± 0.11^{cA}	6.3 ± 0.05^{bB}	5.6 ± 0.08^{dC}
2.5	22.4 ± 0.01^{aA}	22.6 ± 0.03^{cB}	23.0 ± 0.02^{aC}	5.8 ± 0.04^{dA}	5.9 ± 0.08^{dA}	5.0 ± 0.09^{aB}
3	22.6 ± 0.04^{cA}	22.7 ± 0.01^{eB}	23.0 ± 0.04^{aC}	5.7 ± 0.04^{aA}	6.1 ± 0.04^{cB}	5.4 ± 0.00^{eC}

$^{a–d}$ and $^{A–C}$: different lower-case/upper-case letters in the same column/line indicate significant differences, respectively ($p < 0.05$).

Fluorescence microscopy:

Fluorescence microscopy was performed using a fluorescence microscope (Olympus BX53, 200x magnification, Hamburg, Germany) equipped with Microscope Digital Camera DP73, Olympus (Tokyo, Japan) evaluated by the cellSens Standard 1.18 Olympus (Tokyo, Japan) software. Analysis was carried out on minimum 20 positions in three replicates. Preparation of samples was carried out by the help of LIVE/DEAD™ BacLight™ Bacterial Viability Kit (Thermo Fischer, USA), based on the protocol [1] with slight modifications.

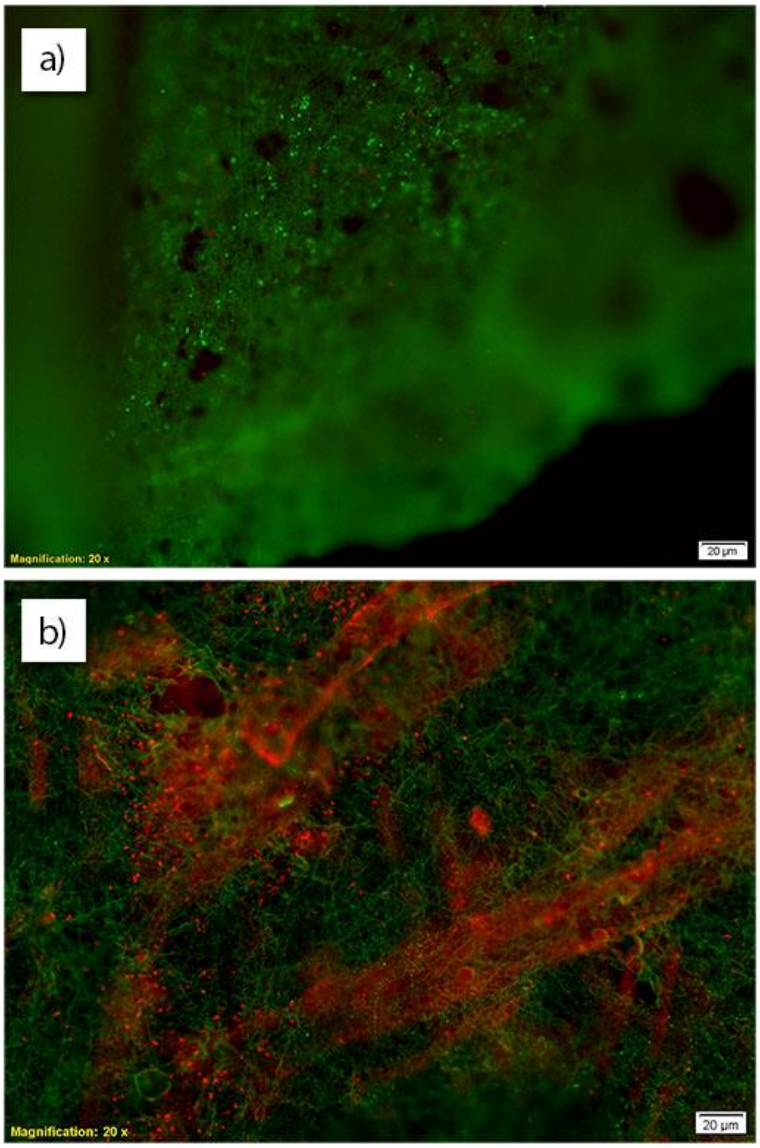

Figure S1. Fluoresence images of the **a**) PVB and **b**) PVB/MAG 10 sample after 24h cultivation *(Escherichia coli)*.

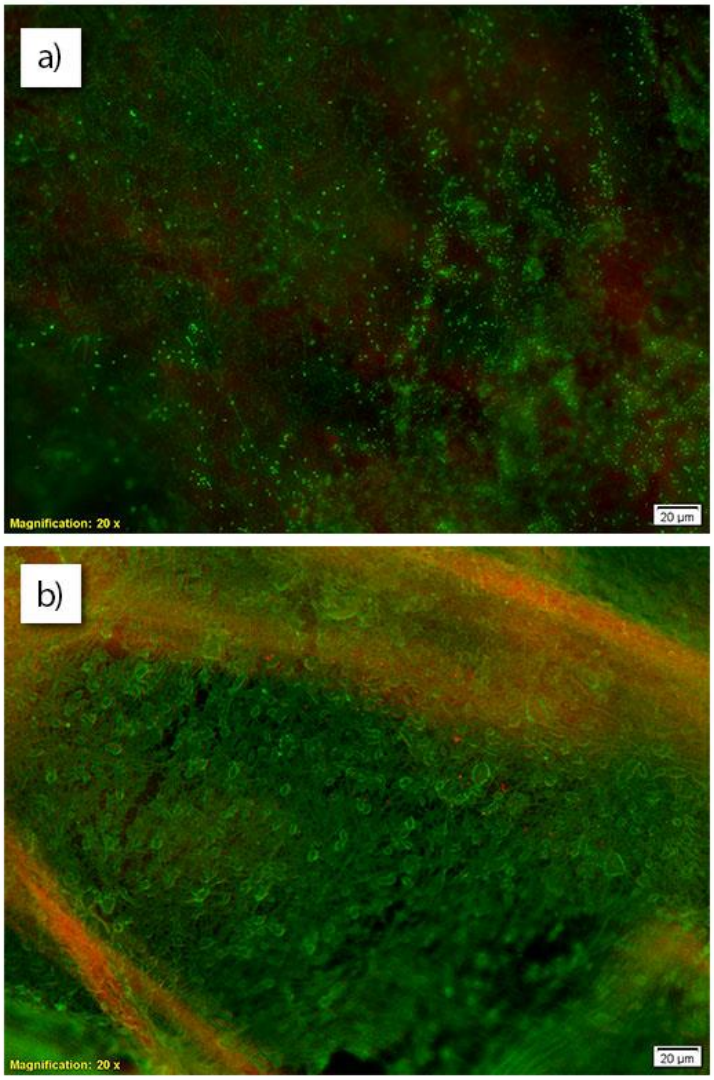

Figure S2. Fluorescence images of the **a**) PVB and **b**) PVB/MAG 10 sample after 24h cultivation *(Staphylococcus aureus)*.

Reference

1. Molecular Probes, Invitrogen detection technologies [online]. Molecular Probes, Inc. Available at: https://assets.thermofisher.com/TFS-Assets/LSG/manuals/mp07007.pdf.