High Bactericidal Self-Assembled Nano-Monolayer of Silver Sulfadiazine on Hydroxylated Material Surfaces

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Figure S1. Spectroscopic Ellipsometry.

Optical functions for the SDM and AgSDM monolayers have been modeled with a Sellmeier-type behavior for the refractive index n (considering the value of 1.679 reported in the literature for plain sulfadiazine) joined to gaussian-like extinction coefficient k associated to the UV absorption band, centered at 255 nm.
Figure S2. Sulfadiazine maleimide (SDM) PM3 model.

SDM molecular model obtained with a semi-empirical PM3 method. In its extended conformation SDM has a length of 1.3 nm (distance between a C atom of the maleimide double bond and the terminal C atom of the pyrim.)
Figure S3. NMR spectra of SDMA (with enlarged zone of characteristic protons).
Figure S4. NMR Spectra for SDM and AgSDM (with enlarged zone of characteristic protons).