## **Supplemental Information for**

## Self-Protecting Bactericidal Titanium Alloy Surface Formed by Covalent Bonding of Daptomycin Bisphosphonates

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**Minimum inhibitory concentrations.** Minimum inhibitory concentrations (MIC) were determined with *Staphylococcus aureus* strain 25923 (ATCC, Germantown, MD), by broth microdilution according to NCCLS guidelines (I) for aerobic Gram-positive organisms. *S. aureus* were maintained in Müller-Hinton broth supplemented with 50 mg/L calcium chloride, according to the Cubist Pharmaceuticals protocol, at a final *S. aureus* titer of  $5\times10^5$  cfu/ml, using daptomycin (1) as the positive control. All assays were performed in triplicate at  $37^{\circ}$ C.

**Table 1**. MIC of daptomycin and its derivatives

Compound Name	MIC, μg/ml
Daptomycin 1	0.8
DAP-TEG-bisphosphonic acid, 5	8.0

(1) Jorgensen, J. H., Cleeland, W. A., Craig, G., Doern, M., Ferraro, J., Finegold, C. M., Hansen, S. L., Jenkins, S. G., Novick, W. J., and Pfaller, M. A. (1993) Methods for dilution antimicrobial susceptibility tests for bacteria that grow aerobically, 3rd approved standard. *National Committee for Clinical Laboratory Standards* 13, 1-12.