**Table S1**

Concentration of kanamycin and IPTG optimized in this study and corresponding antimicrobial activity.

|  |  |  |  |
| --- | --- | --- | --- |
| Bacteriocin | Kanamycin (mg/mL) | IPTG (mM) | Antimicrobial activitya (AU/mL) |
| BM173 | 10 | 0.4 | 1280 |
| BM797 | 8 | 0.7 | 640 |
| BM1029 | 10 | 0.4 | 1280 |
| BM1122 | 4 | 0.4 | 1280 |
| BM1556 | 7 | 0.6 | 640 |
| BM1829 | 5 | 0.4 | 640 |
| BMP11 | 4 | 0.4 | 1280 |
| BMP32 | 10 | 0.4 | 1280 |
| EP-20 | 10 | 0.2 | 320 |
| GP-19 | 8 | 0.4 | 640 |

a, *S. aureus* ATCC29213 was used as indicator.