

TABLE 1. Numbers of PBPs in MSSA and MRSA strains

| <i>S. aureus</i> strain | PBP ^a (molecular mass [kDa]) | No. of molecules of [³ H]penicillin/μg of protein ^b | Avg no. of molecules of [³ H]penicillin/CFU ± SD | Avg no. of molecules of [³ H]penicillin/cell ^c ± SD | % of total |
|-------------------------|---|--|--|--|------------|
| RN4220 | 1 (80) | 7.5×10^8 | 737 ± 32 | 184 ± 8 | 17.1 |
| | 2 (73) | 1.8×10^9 | 1,844 ± 243 | 461 ± 61 | 42.8 |
| | 3 (70) | 5.9×10^8 | 593 ± 86 | 148 ± 21 | 13.7 |
| | 4 (46) | 1.1×10^9 | 1,139 ± 117 | 285 ± 29 | 26.4 |
| RN450M | 1 (80) | 6.7×10^8 | 665 ± 139 | 166 ± 35 | 8.6 |
| | 2a (74) | 3.3×10^9 | 3,292 ± 1,519 | 824 ± 379 | 42.6 |
| | 2 (73) | 1.8×10^9 | 1,798 ± 388 | 449 ± 97 | 23.2 |
| | 3 (70) | 7.9×10^8 | 787 ± 241 | 197 ± 60 | 10.2 |
| | 4 (46) | 1.2×10^9 | 1,196 ± 243 | 299 ± 61 | 15.4 |

^a PBPs are numbered according to standard nomenclature (20).

^b RN4220, 36 μg of protein/ml; RN450M, 45 μg of protein/ml.

^c Approximately four cells per CFU.