

***Staphylococcus aureus* - NRS146**
Other designations (NCTC8325 (RN5843))

| Demographic Information: | |
|--------------------------|---|
| Country/State: | N/A |
| Patient Age: | N/A |
| Patient Location: | N/A |
| Culture Source: | |
| Phenotypic Properties: | erythromycin resistance |
| Genotypic Properties: | ermC, repF-, rsbU- |
| Lysotypic Properties: | N/A |
| Propagation Information: | any rich medium supplemented with erythromycin, 5 ug/ml, at 30-32 degrees Celsius. |
| Literature Citation: | <p>Iordanescu, S. "Three distinct plasmids originating in the same <i>Staphylococcus aureus</i> strain." <i>Arch Roum. Pathol. Exp. Microbiol.</i> 1976;35:111-118.</p> <p>Horinouchi, S., Weinblum B. "Nucleotide sequence and functional map of pE194, a plasmid that specifies inducible resistance to macrolide, lincosamide, and streptogramin type B antibiotics." <i>J. Bacteriol.</i> 1982;150:804-814.</p> <p>Youngman, P. Plasmid vectors for recovering and exploiting Tn917 transpositions in <i>Bacillus</i> and other Gram-positive bacteria. <i>Plasmids, a practical approach.</i> K.G. Hardy. Oxford, IRL Press 1987:79-104.</p> |
| Comment: | N/A |
| Description: | pRN6441 is a derivative of pE194, a 3.8 kb rolling circle plasmid, with a mutation in repF causing thermosensitive replication, plus the insertion of the puC19 multiple cloning site in its single PstI site. |
| Repositories: | Research Strains |

S = Susceptible; R = Resistant; NS = Not Susceptible; I = Intermediate; N/A = Not Available P= Pending results

| NARSA Antimicrobial Profile for Other Antimicrobial Agents | | | Molecular Characterization Data | |
|--|--|------------------|---------------------------------|----------|
| Drug | MIC $\mu\text{g/mL}$ (pp/ml) | CLSI Interptn | PCR <i>mecA</i> | Result |
| Ciprofloxacin | = 0.5 | S | | NEGATIVE |
| Clindamycin | = 0.12 | S | | |
| Erythromycin | > 8 | R | | |
| Gentamicin | = 0.25 | S | | |
| Linezolid | = 1 | S | | |
| Oxacillin | = 0.25 | S | | |
| Penicillin | <= 0.03 | S | | |
| Quinupristin/dalfopristin | = 0.25 | S | | |
| Teicoplanin | = 0.5 | S | | |
| Trimeth/sulfa | <= 0.25/4.75 | S | | |
| Vancomycin | = 1 | S | | |

| Genotype Data | |
|---------------|--------|
| Genotype | Result |
| | |

| | |
|------------------------------------|-------------|
| eGenomic <i>spa</i> type | 59 |
| eGenomic <i>spa</i> repeats | YHGGFMBQBLO |
| Ridom <i>spa</i> type | t211 |
| SCC <i>mec</i> type | - |
| Clonal Complex (CC) | 8 |
| Sequence Type (ST) | 8 |
| Genotype Data file | |
| | |
| | |