

***Staphylococcus aureus* - NRS128**
Other designations (NCTC8325 (RN0031))

Demographic Information:	
Country/State:	N/A
Patient Age:	N/A
Patient Location:	N/A
Culture Source:	
Phenotypic Properties:	erythromycin resistance, heavy metal resistance
Genotypic Properties:	rsbU-,h1b-, sak
Lysotypic Properties:	Φ13
Propagation Information:	any rich medium supplemented with Cd (NO ₃) ₂ , 100 um.
Literature Citation:	Novick, R.P., Richmond M.H. "Nature and interactions of the genetic elements governing penicillinase synthesis in <i>Staphylococcus aureus</i> ." J. Bacteriol. 1965;90:467-480. Novick, R.P., Murphy E., et al. "Penicillinase plasmids of <i>Staphylococcus aureus</i> : Restriction-deletion maps." Plasmid 1979;2:109-129. Novick, R.P. "Staphylococcal plasmids and their replication." Ann. Rev. Microbiol. 1989;43:537-565.
Comment:	
Description:	pl258 is a 28 kb penicillinase plasmid of incompatibility group I, encoding resistance to Hg, Cd, Pb, AsO ₄ ⁼ , AsO ₃ ⁼ , as well as to penicillin and erythromycin. Carries Tn551.
Repositories:	Antibiotic Resistant Strains (other than Glycopeptide)

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	NEGATIVE
Clindamycin	> 4	R		
Erythromycin	> 8	R		
Gentamicin	= 0.5	S		
Linezolid	= 1	S		
Oxacillin	= 1	S		
Penicillin	> 2	R		
Quinupristin/dalfopristin	= 1	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	