

Staphylococcus aureus - NRS145
Other designations (RN4282)

Demographic Information:			
Country/State:	United States / Minnesota	Date of Isolation:	N/A
Patient Age:	N/A	Gender:	N/A
Patient Location:	N/A	Patient Service:	N/A
Culture Source:			
Phenotypic Properties:	TSST-1 agr group I		
Genotypic Properties:	saPI1, tst		
Lysotypic Properties:	N/A		
Propagation Information:	Any rich medium		
Literature Citation:	Lindsay, J.A., Ruzin A., et al. "The gene for toxic shock toxin is carried by a family of mobile pathogenicity islands in Staphylococcus aureus." Mol. Microbiol. 1998;29:527-543. Kreiswirth, B., O'Reilly M, et al. "Genetic characterization and cloning of the toxic shock syndrome exotoxin." Surv. Synth. Path. Res. 1984;3:73-82.		
Comment:	Virulence factors TSST-1, SEL, SEK. Observed 2 colony variants, β cream-grey and β yellow, on sheep blood agar (Remel); both were identical by PFGE.		
Description:	SaPI1 is a mobile 15-kb pathogenicity island transduced at high frequency by phage 80 α . RN4282 is the strain from which tst was first cloned.		
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	$\mu\text{g/mL}$ MIC ($\mu\text{g/ml}$)	CLSI Interprtn	PCR	Result
			<i>mecA</i>	NEGATIVE
Ciprofloxacin	= 0.5	S		
Clindamycin	= 0.12	S		
Erythromycin	= 0.5	S		
Gentamicin	= 1	S		
Linezolid	= 2	S		
Oxacillin	= 0.25	S		
Penicillin	= 2	R		
Quinupristin/dalfopristin	= 0.25	S		
Teicoplanin	= 1	S		
Trimeth/sulfa	<= 0.25/4.75	S		
Vancomycin	= 1	S		

Genotype Data	
Genotype	Result
eGenomic <i>spa</i> type	1
eGenomic <i>spa</i> repeats	YHGFMBQBLO

Ridom <i>spa</i> type	t008
SCC<i>mec</i> type	-
Clonal Complex (CC)	8
Sequence Type (ST)	8
Genotype Data file	