

Staphylococcus aureus - NRS120

Other designations (SA LinR #13)

Demographic Information:			
Country/State:	United States / Massachusetts	Date of Isolation:	05/08/2001
Patient Age:	85 Year(s)	Gender:	Male
Patient Location:	Outpatient/Inpatient	Patient Service:	Medicine
Culture Source:			
Phenotypic Properties:	Resistant to linezolid		
Genotypic Properties:	G2576T mutations in DNA encoding the central loop of domain V of 23S rRNA		
Lysotypic Properties:	N/A		
Propagation Information:	N/A		
Literature Citation:	Tsiodras, S. et al. July 2001. The Lancet (Research Letter) 358:207-208.		
Comment:	Identical to NRS119 and closely related to NRS121 by PFGE		
Description:	Resistant to linezolid; identical to NRS119 and closely related to NRS121 by PFGE		
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	µg/mL MIC (µg/ml)	CLSI Interptn	PCR	Result
			<i>mecA</i>	POSITIVE
Ciprofloxacin	> 16	R		
Clindamycin	= 2	I		
Erythromycin	= 1	I		
Gentamicin	> 16	R		
Linezolid	= 64	NS		
Oxacillin	> 16	R		
Penicillin	> 2	R		
Quinupristin/dalfopristin	= 0.5	S		
Teicoplanin	= 1	S		
Trimeth/sulfa	> 4/76	R		
Vancomycin	= 2	S		

Genotype Data	
Genotype	Result
eGenomic <i>spa</i> type	7
eGenomic <i>spa</i> repeats	YHGCMBQBLO
Ridom <i>spa</i> type	t064
SCC <i>mec</i> type	IV
Clonal Complex (CC)	8
Sequence Type (ST)	507
Genotype Data file	