

Staphylococcus aureus - VRS2

Other designations (HIP11983)

Demographic Information:			
Country/State:	United States / Pennsylvania	Date of Isolation:	09/20/2002
Patient Age:	N/A	Gender:	N/A
Patient Location:	Inpatient	Patient Service:	N/A
Culture Source:			
Literature Citation:	CDC. Public Health Dispatch: Vancomycin-resistant Staphylococcus aureus - Pennsylvania, 2002. MMWR 2002 October;51(40):902		
Donor Reported MIC Results ($\mu\text{g/ml}$)	Vancomycin = 32	Teicoplanin = 4	
Comment:	This strain demonstrates van-plasmid instability. Variable glycopeptide MICs have been observed for this strain depending on pre-test subculturing practices. Subculturing this strain on a rich agar medium containing 4 to 6 $\mu\text{g/ml}$ of vancomycin is recommended to maintain the van-plasmid.		
Repositories:	Glycopeptide Resistant Staphylococci		

NARSA Antimicrobial Susceptibility Data for Glycopeptides

Drug	Broth Microdilution		^a Conventional Etest 0.5 McFarland Std		^b Modified Etest 2 McFarland Std		^c BHI Agar Screen	Disk Diffusion	
	$\mu\text{g/mL}$ MIC ($\mu\text{g/ml}$)	CLSI Interpretn	MIC $\mu\text{g/ml}$	CLSI Interpretn	MIC $\mu\text{g/ml}$	CLSI Interpretn		Zone diam. (mm)	CLSI Interpretn
Vancomycin:	= 64	R	= 96	R	> 256	R	CG(24)	9	NS
Teicoplanin:	= 8	S	= 12	I	= 32	R		11	I

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 Interpretn	PCR	Result
Ciprofloxacin	> 16	R	vanA	POSITIVE
Clindamycin	> 4	R	vanB	NEGATIVE
Erythromycin	> 8	R	vanC1	NEGATIVE
Gentamicin	> 16	R	vanC2	NEGATIVE
Linezolid	= 1	S	vanD	NEGATIVE
Oxacillin	> 16	R	vanE	NEGATIVE
Penicillin	> 2	R	mecA	POSITIVE
Quinupristin/dalfopristin	= 0.5	S		
Trimeth/sulfa	= 1/19	S		