

Percentage of susceptible Organisms Isolated From All Specimen, Clinical Microbiology Laboratory, Vachiraphuket Hospital, January-December-2023 (1/3)

Organism		TOTAL ISOLATES	BETA - LACTAMS										CARBAPENEMS			POLYMYXINS	QUINOLONES			AMINOGLYCOSIDES		GLYCOPEPTIDES	MISCELLANEOUS									
			PENICILIN	AMPCILLIN	AMOXICILLIN/CLAVULANIC ACID	AMPICILLIN / SULBACTAM	PIPERACILLIN /TAZOBACTAM	CEFEXIME	CEFTAZIDIME	CEFTRIAZONE	CEFEPIME	OXACILLIN ^f	ERTAPENEM	IMIPENEM	MEROPENEM	COLISTIN ^g	CIPROFLOXACIN	LEVOFLOXACIN	NORFLOXACIN ^u	AMIKACIN	GENTAMICIN	GENTAMICIN 120 µg ^h	VANCOMYCIN	AZITHROMYCIN	FOSFOMYCIN	CLINDAMYCIN	ERYTHROMYCIN	NITROFURANTOIN ^u	CO-TRIMOXAZOLE	TETRACYCLINE		
Gram negative	<i>Acinetobacter baumannii</i> complex	544		R	R	27 (524)	25 (541)		24 (544)	17 (543)	24 (538)		R	25 (544)	25 (544)	95 (493)	26 (543)				35 (537)				R				44 (534)			
	(ICU)	196		R	R	17 (189)	14 (194)		13 (196)	9 (195)	13 (195)		R	15 (196)	14 (196)	93 (189)	15 (196)				23 (193)				R				39 (191)			
	(inpatient)	301		R	R	23 (292)	21 (301)		22 (301)	16 (301)	22 (298)		R	22 (301)	22 (301)	96 (276)	23 (300)				34 (297)				R				43 (296)			
	(outpatient)	24 ^a		R	R	68 (22)	63 (24)		67 (24)	46 (24)	67 (24)		R	67 (24)	67 (24)	100 (20)	63 (24)				67 (24)				R				71 (24)			
	<i>Aeromonas hydrophila</i>	30					67 (27)		97 (30)	79 (29)	79 (29)			80 (25)	78 (18)		87 (30)												93 (30)			
	<i>Burkholderia pseudomallei</i>	27 ^a						100 (27)						100 (27)															100 (27)			
	<i>Citrobacter freundii</i>	20 ^a		R	R	R	75 (20)		70 (20)	75 (20)	95 (20)		100 (20)	100 (20)	100 (20)		50 (20)		50 (4)		95 (20)							100 (4)	70 (20)			
	<i>Citrobacter koseri</i>	35		R		97 (35)		86 (35)		97 (35)	94 (35)	97 (35)		100 (35)	100 (35)	100 (35)		89 (35)		100 (17)		100 (35)						94 (17)	97 (35)			
	<i>Enterobacter cloacae</i> complex	150		R	R		83 (150)		79 (150)	74 (150)	89 (149)		97 (148)	99 (150)	99 (150)		71 (150)		90 (29)		93 (150)							97 (29)	88 (150)			
	<i>Escherichia coli</i>	1377			79 (1375)		94 (1374)		65 (1366)	59 (1377)	70 (1377)		99 (1375)	99 (1377)	99 (1377)		27 (1375)		47 (836)		76 (1372)				100 (823)			100 (835)	50 (1372)			
	<i>Haemophilus influenzae</i> (all isolates)	26 ^a		50 (26)	100 (26)						100 (26)						100 (26)															
	(age 0-5 years old)	3 ^a		100 (3)	100 (3)						100 (3)						100 (3)															
	(age > 5 years old)	2 ^a		100 (2)	100 (2)						100 (2)						100 (2)															
	(Sterile sites) ^b	1 ^a		100 (1)	100 (1)						100 (1)						100 (1)															
	(Non-sterile sites) ^c	10 ^a		90 (10)	100 (10)						100 (10)						100 (10)															
	<i>Klebsiella pneumoniae</i> (all isolates)	808		R	65 (807)		66 (808)		62 (801)	62 (807)	69 (803)		86 (806)	85 (806)	86 (808)		51 (807)		56 (250)		84 (801)							69 (251)	72 (803)			
	(ICU)	122		R	51 (121)		50 (122)		49 (121)	50 (121)	57 (122)		72 (122)	75 (122)	74 (122)		43 (122)				75 (122)									70 (122)		
	(inpatient)	429		R	62 (429)		64 (429)		58 (427)	59 (429)	67 (425)		83 (427)	83 (427)	84 (429)		48 (428)				84 (423)									69 (425)		
	(outpatient)	120		R	75 (120)		79 (120)		74 (117)	75 (120)	80 (119)		93 (120)	92 (120)	93 (120)		63 (120)				92 (119)									83 (120)		
	<i>Morganella morganii</i>	52		R	R		96 (51)		98 (52)	96 (51)	100 (48)		100 (52)	12 (43)	100 (52)		65 (52)		73 (15)		84 (50)							R		80 (51)		
<i>Neisseria gonorrhoeae</i>	25 ^a						100 ^d (25)			100 ^d (25)													92 ^d (25)							12 ^d (25)		

Gram negative

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Organism		TOTAL ISOLATES	BETA - LACTAMS										CARBAPENEMS			POLYMYXINS	QUINOLONES			AMINOGLYCOSIDES			GLYCOPEPTIDES	MISCELLANEOUS						
			PENICILLIN BY MIC	AMPICILLIN	AMOXICILLIN/CLAVULANIC ACID	AMPICILLIN / SULBACTAM	PIPERACILLIN /TAZOBACTAM	CEFEXIME	CEFTAZIDIME	CEFTRIAZONE	CEFEPIME	OXACILLIN ^f	ERTAPENEM	MIPENEM	MEROPENEM	COLISTIN ^g	CIPROFLOXACIN	LEVOFLOXACIN	NORFLOXACIN ^u	AMIKACIN	GENTAMICIN	GENTAMICIN 120 µg ^h	VANCOMYCIN	AZITHROMYCIN	FOSFOMYCIN	CLINDAMYCIN	ERYTHROMYCIN	NITROFURANTOIN ^v	CO-TRIMOXAZOLE	TETRACYCLINE
Gram negative	<i>Proteus mirabilis</i>	190			84 (167)		100 (187)		97 (187)	91 (188)	95 (187)		99 (189)	35 (155)	99 (190)		78 (190)		80 (84)		85 (190)							R	72 (189)	R
	<i>Pseudomonas aeruginosa</i>	571		R			80 (528)		80 (570)	R	82 (564)		R	76 (566)	74 (566)	99 (407)	80 (571)		56 (103)	94 (568)	90 (116)								R	R
	<i>Salmonella</i> , non-Typhoidal	120		71 (120)						100 (76)							83 (120)												96 (120)	
	<i>Serratia marcescens</i>	48		R	R		98 (43)		92 (48)	94 (48)	100 (48)		100 (47)	98 (48)	100 (48)		96 (48)			96 (48)							R	96 (47)		
	<i>Stenotrophomonas maltophilia</i>	106		R	R		R			R			R	R	R			100 (106)		R	R	R			R				99 (106)	R
	<i>Vibrio parahaemolyticus</i>	5 ^a		0 (5)				100 (5)									100 (5)												100 (5)	
Gram positive	<i>Enterococcus faecalis</i>	192		98 (192)				R	R	R						67 (190)		39 (85)	R	R		100 (192)		100 (87)	R	11 (190)	100 (84)		R	
	<i>Enterococcus faecium</i>	98		10 (98)				R	R	R						8 (97)		0 (54)	R	R		96 (98)			R	2 (97)	20 (54)		R	
	<i>Enterococcus</i> spp.	17 ^a		65 (17)												88 (17)		100 (1)				86 (17)				25 (17)	100 (1)			
	<i>Staphylococcus aureus</i> (all isolates)	550									91 (549)					93 (549)		95 (22)		94 (550)		100 (549)			90 (540)	86 (544)	100 (23)	95 (549)		
	(MRSA)	64									0 (64)					57 (64)				92 (64)		100 (64)			56 (64)	49 (64)		94 (64)		
	(MSSA)	486									100 (485)					98 (486)				94 (486)		100 (486)			94 (477)	91 (481)		96 (485)		
	(ICU)	48									98 (48)					98 (48)				94 (48)		100 (48)			89 (47)	83 (47)		100 (48)		
	(inpatient)	318									91 (317)					93 (318)				94 (318)		100 (318)			89 (312)	86 (316)		96 (318)		
	(outpatient)	117									91 (117)					95 (116)				91 (117)		100 (116)			90 (114)	89 (115)		93 (116)		
	<i>Staphylococcus</i> , coagulase negative	1180									38 (1180)					56 (1180)				74 (1180)		100 (1180)			45 (1180)	38 (1180)		79 (1180)		
	<i>Staphylococcus</i> , coagulase negative (blood)	951									38 (951)					57 (951)				75 (951)		100 (951)			45 (951)	38 (951)		80 (951)		

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			PENICILLIN BY MIC	AMPICILLIN	AMOXICILLIN/CLAVULANIC ACID	AMPICILLIN / SULBACTAM	PIPERACILLIN /TAZOBACTAM	CEFEXIME	CEFTAZIDIME	CEFTRIAXONE	CEFEPIME	OXACILLIN ^f	ERTAPENEM	IMIPENEM	MEROPENEM	COLISTIN ^g	CIPROFLOXACIN	LEVOFLOXACIN	NORFLOXACIN ^u	AMIKACIN	GENTAMICIN	GENTAMICIN 120 µg ^h	VANCOMYCIN	AZITHROMYCIN	FOSFOMYCIN	CLINDAMYCIN	ERYTHROMYCIN	NITROFURANTOIN ^u	CO-TRIMOXAZOLE	TETRACYCLINE
Gram positive	<i>Streptococcus agalactiae</i>	171	100 (171)	100 (171)						100 (171)																77 (171)	82 (171)			
	<i>Streptococcus pyogenes</i>	77	100 (77)	100 (77)						100 (77)																100 (77)	96 (77)			
	Beta-hemolytic Streptococci, not gr.A,B and D	56	100 (56)	100 (56)						100 (56)																85 (33)	80 (35)			
	<i>Streptococcus pneumoniae</i> (all isolates)	99	99 (99)							100 (99)																				
	(age 0-5 years old)	9 ^a	100 (9)							100 (9)																				
	(age > 5 years old)	90	99 (90)							100 (90)																				
	(Sterile sites) ^b	34	100 (34)							100 (34)																				
	(Non-sterile sites) ^c	65	100 (65)							100 (65)																				
	Viridans group Streptococci	110	77 (110)	87 (67)						94 (110)													100 (65)							

^a : Calculated from fewer than the standard recommendation of 30 isolates

^b : Blood, Pleural Fluid, CSF

^c : Sputum, Ear, Sinus

^d : BY MIC (E-test)

^e : MIC Interpretive Criteria

^f : Interpret according to oxacillin MICs susceptibility test

^g : COLISTIN คำนวณจาก Intermediate COLISTIN BY MIC (Microbroth dilution method)

^h : High-Level Aminoglycoside

^u : Urine, Urine Catheter, Urine Clean- Voided

R : Intrinsic resistance

% S

