Microbiology Laboratory unit of Medical Technology department ,Khon Kaen Hospital
Percentage of susceptibility testing of most common oraniems (All specimens) Khon Kaen Hospital January -December 2022

	Microbe/Agent	Total isolate	Penicillin G	Oxacillin	Ampicillin	Cefoxitin	Ceftriaxone	Ceftazidime	Cefepime	Imipenem	Meropenem	Ertapenem	Gentamicin	Amikacin	Tobramycin	Ciprofloxacin	Levofloxacin	Moxifloxacin	Norfloxacin	Nitrofurantoin	Tetracycline	Doxycycline	Minocycline	Tigecycline	Erythromycin	Azithromycin	Clindamycin	Vancomycin	Teicoplanin	Linezolid	Rifampicin	Co-trimoxazole	Co-amoxiclav	Ampicillin/Sulbactam	Piperacillin/Tazobactam	Ceftazidime/Avibactam	Ceftolozane/Tazobactam	Ceftriaxone/Sulbactam	Cefoperazone/Sulbactam	Colistin	Polymyxin B
Gram Negative	Acinetobacter baumannii complex (Acinetobacter calcoaceticus-baumannii complex)	1,124								84% 1,124	84% 1,124					0% 1,124		0% 1,124	84% 1,124				84% 1,124	84% 1,124									0% 1,124								0% 1,124	
	Acinetobacter spp.	1,124								84% 1,124	84% 1,124					0% 1,124		0% 1,124	84% 1,124				84% 1,124	84% 1,124									0% 1,124								0% 1,124	
	Citrobacter freundii	207								100% 207	100% 207					0% 207		0% 207	100% 207				100% 207	100% 207									0% 207								0% 207	
	Citrobacter koseri (diversus)	10								100% 10	100% 10					0% 10		0% 10	100% 10				100% 10	100% 10									0% 10								0% 10	
	Enterobacter aerogenes	1,1								90% 1,1	90% 1,1										0% 1,1																				
	Enterobacter cloacae complex	20														0% 20		0% 20	100% 20				100% 20	100% 20									0% 20								0% 20	
	Escherichia fergusonii	10																																							
	Escherichia hermannii	10																																							
	Escherichia coli	1,1						90% 1,1																																	
	Klebsiella (Enterobacter) aerogenes	10														0% 10																									
	Klebsiella pneumoniae	1,1																																							
	Klebsiella oxytoca	10																																							
	Morganella morganii complex	1																																							
	Proteus mirabilis	1,1																																							
	Proteus vulgaris	10																																							
	Providencia rettgeri	1																																							
	Providencia stuartii	10																																							
	Providencia spp.	1																																							
	Salmonella enterica subsp. enterica (salmonella spp.)	1,1																																							
	Salmonella enterica subsp. enterica serovar Typhi (salmonella typhi)	1,1																																							
	Salmonella enterica subsp. enterica serovar Paratyphi A (salmonella paratyphi A)	10																																							
	Salmonella enterica subsp. enterica serovar Paratyphi B (salmonella paratyphi B)	10																																							
	Salmonella enterica subsp. enterica serovar Paratyphi C (salmonella paratyphi C)	10																																							
	Salmonella enterica subsp. enterica serovar Typhimurium (salmonella typhimurium)	1,1																																							
	Salmonella enterica subsp. enterica serovar Enteritidis (salmonella enteritidis)	10																																							
	Shigella dysenteriae	1,1																																							
	Shigella flexneri	10																																							
	Shigella boydii	10																																							
	Shigella sonnei	1,1																																							
	Yersinia enterocolitica	10																																							
	Yersinia pseudotuberculosis	10																																							
	Yersinia enterocolitica	1,1																																							
Gram Positive	Enterococcus faecalis	1,1																																							
	Enterococcus faecium	1,1																																							
	Streptococcus agalactiae	1,1																																							
	Streptococcus pneumoniae (pneumococcus)	1,1																																							
	Streptococcus pyogenes (group A streptococcus)	10																																							
	Streptococcus agalactiae (group B streptococcus)	1,1																																							
	Streptococcus dysgalactiae subsp. equisimilis (group C streptococcus)	10																																							
	Streptococcus anginosus (group F streptococcus)	10																																							
	Streptococcus gallolyticus (group D streptococcus)	1,1																																							
	Streptococcus sanguinis (group H streptococcus)	1,1																																							
	Streptococcus bovis (group D streptococcus)	1,1																																							
	Streptococcus mitis (group B streptococcus)	1,1																																							
	Streptococcus pneumoniae (pneumococcus)	1,1																																							
	Streptococcus pyogenes (group A streptococcus)	1,1																																							
	Streptococcus sanguinis (group H streptococcus)	1,1																																							
	Streptococcus bovis (group D streptococcus)	1,1																																							
	Streptococcus mitis (group B streptococcus)	1,1																																							
	Streptococcus pneumoniae (pneumococcus)	1,1																																							
	Streptococcus pyogenes (group A streptococcus)	1,1																																							

Microbiology Laboratory unit of Medical Technology department ,Khon Kaen Hospital
Percentage of susceptibility testing of most common oraniems in Blood specimens Khon Kaen Hospital January -December 2022

	Microbe/Agent	Total isolate	Penicillin G	Oxacillin	Ampicillin	Cefoxitin	Ceftriaxone	Ceftazidime	Cefepime	Imipenem	Meropenem	Ertapenem	Gentamicin	Amikacin	Tobramycin	Ciprofloxacin	Levofloxacin	Moxifloxacin	Norfloxacin	Nitrofurantoin	Tetracycline	Doxycycline	Minocycline	Tigecycline	Erythromycin	Azithromycin	Clindamycin	Vancomycin	Teicoplanin	Linezolid	Rifampicin	Co-trimoxazole	Co-amoxiclav	Ampicillin/Sulbactam	Piperacillin/Tazobactam	Ceftazidime/Avibactam	Ceftolozane/Tazobactam	Ceftriaxone/Sulbactam	Cefoperazone/Sulbactam	Colistin	Polymyxin B
Gram Negative	Acinetobacter baumannii complex (Acinetobacter calcoaceticus-baumannii complex)	1,124								84% 1,124	84% 1,124					0% 1,124		0% 1,124	84% 1,124				84% 1,124	84% 1,124									0% 1,124								0% 1,124	
	Acinetobacter spp.	1,124								84% 1,124	84% 1,124					0% 1,124		0% 1,124	84% 1,124				84% 1,124	84% 1,124									0% 1,124								0% 1,124	
	Citrobacter freundii	207								100% 207	100% 207					0% 207		0% 207	100% 207				100% 207	100% 207									0% 207								0% 207	
	Citrobacter koseri (diversus)	10								100% 10	100% 10					0% 10		0% 10	100% 10				100% 10	100% 10									0% 10								0% 10	
	Enterobacter aerogenes	1,1								90% 1,1	90% 1,1										0% 1,1																				
	Enterobacter cloacae complex	20														0% 20		0% 20	100% 20				100% 20	100% 20									0% 20								0% 20	
	Escherichia fergusonii	10																																							
	Escherichia hermannii	10																																							
	Escherichia coli	1,1						90% 1,1																																	
	Klebsiella (Enterobacter) aerogenes	10														0% 10																									
	Klebsiella pneumoniae	1,1																																							
	Klebsiella oxytoca	10																																							
	Morganella morganii complex	1																																							
	Proteus mirabilis	1,1																																							
	Proteus vulgaris	10																																							
	Providencia rettgeri	1																																							
	Providencia stuartii	10																																							
	Providencia spp.	1																																							
	Salmonella enterica subsp. enterica (salmonella spp.)	1,1																																							
	Salmonella enterica subsp. enterica serovar Typhi (salmonella typhi)	1,1																																							
	Salmonella enterica subsp. enterica serovar Paratyphi A (salmonella paratyphi A)	10																																							
	Salmonella enterica subsp. enterica serovar Paratyphi B (salmonella paratyphi B)	10																																							
	Salmonella enterica subsp. enterica serovar Paratyphi C (salmonella paratyphi C)	10																																							
	Salmonella enterica subsp. enterica serovar Typhimurium (salmonella typhimurium)	1,1																																							
	Salmonella enterica subsp. enterica serovar Enteritidis (salmonella enteritidis)	10																																							
	Shigella dysenteriae	1,1																																							
	Shigella flexneri	10																																							
	Shigella boydii	10																																							
	Shigella sonnei	1,1																																							
	Yersinia enterocolitica	10																																							
	Yersinia pseudotuberculosis	10																																							
	Yersinia enterocolitica	1,1																																							
Gram Positive	Enterococcus faecalis	1,1																																							
	Enterococcus faecium	1,1																																							
	Streptococcus agalactiae	1,1																																							
	Streptococcus pneumoniae (pneumococcus)	1,1																																							
	Streptococcus pyogenes (group A streptococcus)	1,1																																							
	Streptococcus sanguinis (group H streptococcus)	1,1																																							
	Streptococcus bovis (group D streptococcus)	1,1																																							
	Streptococcus mitis (group B streptococcus)	1,1																																							
	Streptococcus pneumoniae (pneumococcus)	1,1																																							
	Streptococcus pyogenes (group A streptococcus)	1,1																																							

Microbiology Laboratory unit of Medical Technology department ,Khon Kaen Hospital
Percentage of susceptibility testing of most common oraniems in Respiratory tract Khon Kaen Hospital January -December 2022

	Microbe/Agent	Total isolate	Penicillin G	Oxacillin	Ampicillin	Cefoxitin	Ceftriaxone	Ceftazidime	Cefepime	Imipenem	Meropenem	Ertapenem	Gentamicin	Amikacin	Tobramycin	Ciprofloxacin	Levofloxacin	Moxifloxacin	Norfloxacin	Nitrofurantoin	Tetracycline	Doxycycline	Minocycline	Tigecycline	Erythromycin	Azithromycin	Clindamycin	Vancomycin	Teicoplanin	Linezolid	Rifampicin	Co-trimoxazole	Co-amoxiclav	Ampicillin/Sulbactam	Piperacillin/Tazobactam	Ceftazidime/Avibactam	Ceftolozane/Tazobactam	Ceftriaxone/Sulbactam	Cefoperazone/Sulbactam	Colistin	Polymyxin B
Gram Negative	Acinetobacter baumannii complex (Acinetobacter calcoaceticus-baumannii complex)	1,124								84% 1,124	84% 1,124					0% 1,124		0% 1,124	84% 1,124				84% 1,124	84% 1,124									0% 1,124								0% 1,124	
	Acinetobacter spp.	1,124								84% 1,124	84% 1,124					0% 1,124		0% 1,124	84% 1,124				84% 1,124	84% 1,124									0% 1,124								0% 1,124	
	Citrobacter freundii	207								100% 207	100% 207					0% 207		0% 207	100% 207				100% 207	100% 207									0% 207								0% 207	
	Citrobacter koseri (diversus)	10								100% 10	100% 10					0% 10		0% 10	100% 10				100% 10	100% 10									0% 10								0% 10	
	Enterobacter aerogenes	1,1								90% 1,1	90% 1,1										0% 1,1																				
	Enterobacter cloacae complex	20														0% 20		0% 20	100% 20				100% 20	100% 20									0% 20								0% 20	
	Escherichia fergusonii	10																																							
	Escherichia hermannii	10																																							
	Escherichia coli	1,1						90% 1,1																																	
	Klebsiella (Enterobacter) aerogenes	10														0% 10																									
	Klebsiella pneumoniae	1,1																																							
	Klebsiella oxytoca	10																																							
	Morganella morganii complex	1																																							
	Proteus mirabilis	1,1																																							
	Proteus vulgaris	10																																							
	Providencia rettgeri	1																																							
	Providencia stuartii	10																																							
	Providencia spp.	1																																							
	Salmonella enterica subsp. enterica (salmonella spp.)	1,1																																							
	Salmonella enterica subsp. enterica serovar Typhi (salmonella typhi)	1,1																																							
	Salmonella enterica subsp. enterica serovar Paratyphi A (salmonella paratyphi A)	10																																							
	Salmonella enterica subsp. enterica serovar Paratyphi B (salmonella paratyphi B)	10																																							
	Salmonella enterica subsp. enterica serovar Paratyphi C (salmonella paratyphi C)	10																																							
	Salmonella enterica subsp. enterica serovar Typhimurium (salmonella typhimurium)	1,1																																							
	Salmonella enterica subsp. enterica serovar Enteritidis (salmonella enteritidis)	10																																							
	Shigella dysenteriae	1,1																																							
	Shigella flexneri	10																																							
	Shigella boydii	10																																							
	Shigella sonnei	1,1																																							
	Yersinia enterocolitica	10																																							
	Yersinia pseudotuberculosis	10																																							
	Yersinia enterocolitica	1,1																																							
Gram Positive	Enterococcus faecalis	1,1																																							
	Enterococcus faecium	1,1																																							
	Streptococcus agalactiae	1,1																																							
	Streptococcus pneumoniae (pneumococcus)	1,1																																							
	Streptococcus pyogenes (group A streptococcus)	1,1																																							
	Streptococcus sanguinis (group H streptococcus)	1,1																																							
	Streptococcus bovis (group D streptococcus)	1,1																																							
	Streptococcus mitis (group B streptococcus)	1,1																																							
	Streptococcus pneumoniae (pneumococcus)	1,1																																							
	Streptococcus pyogenes (group A streptococcus)	1,1																																							

Microbiology Laboratory unit of Medical Technology department ,Khon Kaen Hospital
Percentage of susceptibility testing of most common oraniems in Gastrointestinal tract Khon Kaen Hospital January -December 2022

	Microbe/Agent	Total isolate	Penicillin G	Oxacillin	Ampicillin	Cefoxitin	Ceftriaxone	Ceftazidime	Cefepime	Imipenem	Meropenem	Ertapenem	Gentamicin	Amikacin	Tobramycin	Ciprofloxacin	Levofloxacin	Moxifloxacin	Norfloxacin	Nitrofurantoin	Tetracycline	Doxycycline	Minocycline	Tigecycline	Erythromycin	Azithromycin	Clindamycin	Vancomycin	Teicoplanin	Linezolid	Rifampicin	Co-trimoxazole	Co-amoxiclav	Ampicillin/Sulbactam	Piperacillin/Tazobactam	Ceftazidime/Avibactam	Ceftolozane/Tazobactam	Ceftriaxone/Sulbactam	Cefoperazone/Sulbactam	Colistin	Polymyxin B
Gram Negative	Enterobacter cloacae complex	20														0% 20		0% 20	100% 20				100% 20	100% 20									0% 20								0% 20	
	Escherichia fergusonii	10																																							
	Escherichia coli	1,1						90% 1,1																																	
	Klebsiella (Enterobacter) aerogenes	10														0% 10																									
	Klebsiella pneumoniae	1,1																																							
	Klebsiella oxytoca	10																																							
	Morganella morganii complex	1																																							
	Proteus mirabilis	1,1																																							
	Proteus vulgaris	10																																							
	Providencia rettgeri	1																																							
	Providencia stuartii	10																																							
	Providencia spp.	1																																							
	Salmonella enterica subsp. enterica (salmonella spp.)	1,1																																							
	Salmonella enterica subsp. enterica serovar Typhi (salmonella typhi)	1,1																																							
	Salmonella enterica subsp. enterica serovar Paratyphi A (salmonella paratyphi A)	10																																							
	Salmonella enterica subsp. enterica serovar Paratyphi B (salmonella paratyphi B)	10																																							
	Salmonella enterica subsp. enterica serovar Paratyphi C (salmonella paratyphi C)	10																																							
	Salmonella enterica subsp. enterica serovar Typhimurium (salmonella typhimurium)	1,1																																							
	Salmonella enterica subsp. enterica serovar Enteritidis (salmonella enteritidis)	10																																							
	Shigella dysenteriae	1,1																																							
	Shigella flexneri	10																																							
	Shigella boydii	10																																							
	Shigella sonnei	1,1																																							
	Yersinia enterocolitica	10																																							
	Yersinia pseudotuberculosis	10																																							
	Yersinia enterocolitica	1,1																																							
Gram Positive	Enterococcus faecalis	1,1																																							
	Enterococcus faecium	1,1																																							
	Streptococcus agalactiae	1,1																																							
	Streptococcus pneumoniae (pneumococcus)	1,1																																							
	Streptococcus pyogenes (group A streptococcus)	1,1																																							

Microbiology Laboratory unit of Medical Technology department ,Khon Kaen Hospital
Percentage of susceptibility testing of most common oraniems in Urinary tract Khon Kaen Hospital January -December 2022

	Microbe/Agent	Total isolate	Penicillin G	Oxacillin	Ampicillin	Cefoxitin	Ceftriaxone	Ceftazidime	Cefepime	Imipenem	Meropenem	Ertapenem	Gentamicin	Amikacin	Tobramycin	Ciprofloxacin	Levofloxacin	Moxifloxacin	Norfloxacin	Nitrofurantoin	Tetracycline	Doxycycline	Minocycline	Tigecycline	Erythromycin	Azithromycin	Clindamycin	Vancomycin	Teicoplanin	Linezolid	Rifampicin	Co-trimoxazole	Co-amoxiclav	Ampicillin/Sulbactam	Piperacillin/Tazobactam	Ceftazidime/Avibactam	Ceftolozane/Tazobactam	Ceftriaxone/Sulbactam	Cefoperazone/Sulbactam	Colistin	Polymyxin B
Gram Negative	Acinetobacter baumannii complex (Acinetobacter calcoaceticus-baumannii complex)	1,124								84% 1,124	84% 1,124					0% 1,124		0% 1,124	84% 1,124				84% 1,124	84% 1,124									0% 1,124								0% 1,124	
	Acinetobacter spp.	1,124								84% 1,124	84% 1,124					0% 1,124		0% 1,124	84% 1,124				84% 1,124	84% 1,124									0% 1,124								0% 1,124	
	Citrobacter freundii	207								100% 207	100% 207					0% 207		0% 207	100% 207				100% 207	100% 207									0% 207								0% 207	
	Citrobacter koseri (diversus)	10								100% 10	100% 10					0% 10		0% 10	100% 10				100% 10	100% 10									0% 10								0% 10	
	Enterobacter aerogenes	1,1								90% 1,1	90% 1,1										0% 1,1																				
	Enterobacter cloacae complex	20														0% 20		0% 20	100% 20				100% 20	100% 20									0% 20								0% 20	
	Escherichia fergusonii	10																																							
	Escherichia hermannii	10																																							
	Escherichia coli	1,1						90% 1,1																																	
	Klebsiella (Enterobacter) aerogenes	10														0% 10																									
	Klebsiella pneumoniae	1,1																																							
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	Providencia spp.	1																																							
	Salmonella enterica subsp. enterica (salmonella spp.)	1,1																																							
	Salmonella enterica subsp. enterica serovar Typhi (salmonella typhi)	1,1																																							
	Salmonella enterica subsp. enterica serovar Paraty