

## EQUAfrica AMR Programme – Cycle 1

### Expected results

<b>Sample A</b>			
Graded areas	Expected response		
<b>Microscopy</b>	Gram-negative bacilli (Not evaluated)		
<b>Culture and ID</b>	<i>Klebsiella pneumoniae</i>		
<b>Antimicrobial susceptibility testing results</b>	Ampicillin – R	Ceftriaxone – R	Imipenem – R
	Amoxicillin/clavulanate – R	Amikacin – I / R	Meropenem – R
	Cefepime – R	Gentamicin – S	Piperacillin/tazobactam – R
	Cefotaxime – R	Tobramycin – R	Trimethoprim/sulfamethoxazole – R
	Cefoxitin – R	Ciprofloxacin – R	**Colistin – I
	Ceftazidime – R	Ertapenem – R	
<b>Resistance phenotype</b>	Carbapenemase producing <i>Enterobacterales</i> (CPE)		
<b>Sample B</b>			
Graded areas	Expected response		
<b>Microscopy</b>	Gram-positive cocci		
<b>Culture and ID</b>	<i>Enterococcus faecium</i>		
<b>Antimicrobial Susceptibility Testing results</b>	Ampicillin – R	Linezolid – S	Teicoplanin – R
	Chloramphenicol – S	Quinupristin/dalfopristin – S	Vancomycin – R
<b>Resistance phenotype</b>	Vancomycin Resistant <i>Enterococcus</i> (VRE)		
<b>Sample C</b>			
Graded areas	Expected response		
<b>Microscopy</b>	Gram- negative bacilli (Not evaluated)		
<b>Culture and ID</b>	<i>Pseudomonas aeruginosa</i>		
<b>Antimicrobial susceptibility testing results</b>	Amikacin – R	Ciprofloxacin – R	Piperacillin/tazobactam – R
	Aztreonam – I / R	Gentamicin – R	Tobramycin – R
	Cefepime – I / R	Imipenem –I / R	Trimethoprim/sulfamethoxazole – N/A
	Ceftazidime – I / R	Meropenem – I / R	
<b>Resistance phenotype</b>	Not applicable		

<b>Sample D</b>			
Graded areas	Expected response		
<b>Microscopy</b>	Gram-positive cocci (Not evaluated)		
<b>Culture and ID</b>	<i>Staphylococcus aureus</i>		
<b>Antimicrobial susceptibility testing results</b>	Cefoxitin – S	Gentamicin – S	Rifampicin – S
	Ciprofloxacin - S	Linezolid – S	Tetracycline – S
	Clindamycin – S	*Oxacillin – S	*Vancomycin – S
	Erythromycin – R	Penicillin – R	
<b>Resistance phenotype</b>	Inducible clindamycin resistance – Clindamycin may be reported as resistant		
<b>Sample E</b>			
Graded areas	Expected response		
<b>Microscopy</b>	Gram-positive bacilli/cocco-bacilli		
<b>Culture and ID</b>	<i>Listeria monocytogenes</i>		

\* A MIC method must be used for determining AST results

\*\*Testing to be done using a Broth micro-dilution (BMD) method

S / I / R – Susceptible / Intermediate / Resistant