



ANTIBIOGRAMS

Antibiograms are important when designing antibiotic resistance studies to ensure the API targets the strains it's supposed to target. Below are the antibiograms of several isolates for several species of bacteria in Emery Pharma's inventory.

Typical MIC values are given for each standard antibiotic and then the susceptibility is determined per CLSI guidelines:
R = Resistant, **S** = Susceptible, **I** = Intermediate

STAPHYLOCOCCUS AUREUS		MIC (µg/mL)									
PHENOTYPE	STUDY ISOLATE ID	<i>Ciprofloxacin</i>	<i>Clindamycin</i>	<i>Erythromycin</i>	<i>Mupirocin</i>	<i>Oxacillin</i>	<i>Tetracycline</i>	<i>Trimeth/Sulfa</i>	<i>Vancomycin</i>		
VISA	1674604		>4 R	>4 R		>2 R		2 S	>4 R		
VISA	1674605			>8 R		>8 R			4 I		
mupirocin R	1674606	2 I		0.5 S	>128	≤0.25 S					
mupirocin R	1674607	>4 R		>8 R	>128	>4 R					
mupirocin R	1674608	>4 R		0.5 S	>128	≤0.25 S					
mupirocin R	1674610	0.12 S		0.5 S	>128	≤0.25 S					
mupirocin R	1674611	>4 R		>8 R	>128	>4 R					
VISA	1674612					4 R			8 I		
MRSA	1674616	0.25 S	≤0.5 S	>16 R		>4 R		≤0.5 S	0.5 S		
MSSA	1674619	0.12 S	≤0.5 S	>16 R		0.25 S		≤0.5 S	0.5 S		
MSSA	1674624	0.25 S	0.12 S	>8 R		0.5 S		≤0.25 S	1 S		
MRSA	1674625	0.5 S	0.12 S	>8 R		>8 R		≤0.25 S	1 S		
MRSA	1674631	>16 R	>4 R	>8 R		>8 R		≤0.25 S	1 S		
MRSA	1674634	0.25 S	0.06 S	>8 R		>8 R		≤0.25 S	0.5 S		
MRSA	1674635	0.5 S	0.06 S	>8 R		>8 R		≤0.25 S	0.5 S		
MSSA	1674636	0.25 S	0.12 S	0.25 S		0.25 S		≤0.25 S	1 S		

ENTEROCOCCI			MIC (µg/mL)									
ORGANISM	PHENOTYPE	STUDY ISOLATE ID	Ciprofloxacin	Clindamycin	Erythromycin	Gentamicin	Linezolid	Tetracycline	Trimeth/ Sulfa	Vancomycin		
<i>faecalis</i>	VRE	1674614	>32 R				2 S			512	R	
	VRE	1674615	>32 R				2 S			256	R	
	VRE	1674617	>32 R				1 S			512	R	
	VSE	1674621	0.5 S				1 S			<=0.5	S	
	VSE	1674632	1 S	>4	2 I	16	1 S		<=0.25 [®]	2	S	
	VRE	1674633	>16 R	>4	>8 R	>16	1 S		<=0.25	>32	R	
	VSE	1674646	0.5 S	>4	>8 R	>16	1 S		<=0.25	1	S	
	VRE	1674647	>16 R	>4	>8 R	>16	1 S		2	>32	R	
<i>faecium</i>	LZD R	1674609					8 R	64 R		>128	R	
	LZD R	1674613					32 R	64 R		>128	R	
	VRE	1674618	>32 R				2 S			512	R	
	VRE	1674620	>32 R				2 S			512	R	
	LZD R	1674609					R					

ACINETOBACTER			MIC (µg/mL)					
ORGANISM	PHENOTYPE	STUDY ISOLATE ID	<i>Cefepime</i>	<i>Ceftazidime</i>	<i>Ciprofloxacin</i>	<i>Gentamicin</i>	<i>Imipenem</i>	<i>PIP/TAZO</i>
<i>Acinetobacter baumannii</i>	MDR	1674622	>32	>32	>8	>16	>32	>128
<i>Acinetobacter baumannii</i>	MDR	1674627	>32	>32	>8	>16	>32	>128
<i>Acinetobacter baumannii</i>	MDR	1674628	64	>128	64	>16	16	>128
<i>Acinetobacter baumannii</i>	MDR	1674640	>128	>128	128	>16	>32	>128
<i>Acinetobacter baumannii</i>	MDR	1674641	128	>128	32	>16	>32	>128

PSEUDOMONAS			MIC (µg/mL)											
ORGANISM	PHENOTYPE	STUDY ISOLATE ID	<i>Cefepime</i>		<i>Ceftazidime</i>		<i>Ciprofloxacin</i>		<i>Gentamicin</i>		<i>Imipenem</i>		<i>PIP/TAZO</i>	
<i>Pseudomonas aeruginosa</i>	MDR	1674623	32	R	>32	R	>8	R	>16	R	>32	R	>128	R
<i>Pseudomonas aeruginosa</i>	IPM R	1674629	4	S	4	S	32	R	2	S	16	R	16	S
<i>Pseudomonas aeruginosa</i>	IPM R	1674637	8	S	4	S	32	R	4	S	16	R	32	S
<i>Pseudomonas aeruginosa</i>	MDR	1674638	32	R	128	R	32	R	>16	R	32	R	>128	R
<i>Pseudomonas aeruginosa</i>	MDR	1674639	32	R	32	R	>128	R	>16	R	32	R	>128	R

ESCHERICHIA COLI		MIC (µg/mL)											
PHENOTYPE	STUDY ISOLATE ID	<i>Ampicillin</i>		<i>Cefepime</i>		<i>Cefotaxime</i>		<i>Cefotaxime/clavulanate</i>		<i>Ceftazidime</i>		<i>Ceftazidime/clavulanate</i>	
MDR	1674626			>32	R	>64	R	≤1		>32	R	≤0.5	
FQ R	1674630	>32	R	0.12	S	0.25	S	≤0.25		0.5	S	≤0.25	
FQ R	1674642	>32	R	0.5	S	0.25	S	≤0.25		0.25	S	≤0.25	
ESBL	1674643	>32	R	16	I	>64	R	≤0.25		64	R	0.5	
ESBL	1674644	>32	R	128	R	>64	R	≤0.25		32	R	≤0.25	
MDR	1674645	>32	R	>128	R	>64	R	≤0.25		>128	R	0.5	

ESCHERICHIA COLI		MIC (µg/mL)											
PHENOTYPE	STUDY ISOLATE ID	<i>Ceftriaxone</i>		<i>Ciprofloxacin</i>		<i>Gentamicin</i>		<i>Imipenem</i>		<i>Levofloxacin</i>		<i>PIP/TAZO</i>	
MDR	1674626	>64	R	>8	R	>16	R	0.5	S	>8	R	128	R
FQ R	1674630	0.12	S	128	R	0.5	S	0.12	S	32	R	4	S
FQ R	1674642	0.12	S	>128	R	1	S	0.12	S	32	R	8	S
ESBL	1674643	>64	R	>128	R	>16	R	0.12	S	16	R	32	I
ESBL	1674644	>64	R	>128	R	>16	R	0.12	S	16	R	16	S
MDR	1674645	>64	R	>128	R	1	S	0.25	S	64	R	>128	R