

感染症モデルマウス *in vivo* 試験受託サービスの取り扱いモデル一覧

詳細はコスモ・バイオ(株)創業・受託サービス部までお問い合わせください。

E-mail: jutaku_gr@cosmobio.co.jp

感染モデルマウス(グラム陰性菌)

<i>Acinetobacter baumannii</i> (グラム陰性菌)			Assay				
Strain	Notable AMR genes	Antibiotic resistance	MIC panel	MIC	Thigh model	Lung model	Peritonitis model
#17978	OXA-259	Susceptible	○	○	○	○	-
#0280	OXA-66	Susceptible	○	○	○	○	○
#0275	OXA-23,OXA-66	CRAB	○	○	○	○	-
#0282	OXA-23,OXA-66	CRAB	○	○	○	○	-
#0313	OXA-23,OXA-69	CRAB	○	○	○	○	-
#0277	OXA-24, OXA-65	CRAB	○	○	○	○	-
#0088	NDM-1,OXA-64	CRAB	○	○	○	○	○
<i>Acinetobacter baumannii</i> Screen MIC panel			PP288				

✓ Assay item part of panel, CRAB: Carbapenem Resistant *Acinetobacter baumannii*, MDR

<i>Escherichia coli</i> (グラム陰性菌)			Assay					
Strain	Notable AMR genes	Antibiotic resistance	MIC panel	MIC	Thigh model	Lung model	Peritonitis model	Septicemia (IV)
#25922	-	Susceptible	○	○	○	-	○	-
#700336	-	Susceptible	○	○	○	-	○	○
#0372	CTX-M-15	ESBL	○	○	○	-	-	-
#0349	MCR-1, CTX-M-14	ESBL, colistin	○	○	○	-	○	-
#0048	NDM-1	CRE	○	○	○	-	-	-
#0055	NDM-1	CRE	○	○	○	-	○	-
#0114	KPC-3	CRE	○	○	○	-	-	-
<i>Acinetobacter baumannii</i> Screen MIC panel			PP289					

✓ Assay item part of panel, ESBL: Extended Spectrum β -lactamase producing strain, CRE: Carbapenem Resistant Enterobacteriaceae, MDR

<i>Klebsiella pneumoniae</i> (グラム陰性菌)			Assay						
Strain	Notable AMR genes	Antibiotic resistance	MIC panel	MIC	Thigh model	Lung model	Peritonitis model	Septicemia (IV)	IC Lung model
#43816	SHV	Susceptible	○	○	○	○	○	○	○
#10031	-	Susceptible	○	○	-	-	○	-	-
#1705	KPC-2	CRE	○	○	○	○	○	-	-
#13443	NDM-1	CRE	○	○	○	○	-	-	-
#0041	NDM-1	CRE	○	○	○	-	○	-	-
#0087	SHV-12	ESBL	○	○	○	-	-	-	-
#0097	KPC-3	CRE	○	○	○	-	○	-	-
#0098	KPC-2	CRE	○	○	○	-	○	-	-
#0135	VIM-1	CRE	○	○	○	-	-	-	-
#0138	NDM-7	CRE	○	○	○	-	-	-	-
#0160	OXA-48	CRE	○	○	○	-	-	-	-
<i>Klebsiella pneumoniae</i> Screen MIC panel			PP290						

✓ Assay item part of panel, ESBL: Extended Spectrum β -lactamase producing strain,

CRE: Carbapenem Resistant Enterobacteriaceae, MDR, IC: the lung model performed with immunocompetent mice

<i>Pseudomonas aeruginosa</i> (グラム陰性菌)			Assay							
Strain	Notable AMR genes	Antibiotic resistance	MIC panel	MIC	Thigh model	Lung model	Peritonitis model	Septicemia (IV)	IC Thigh model	IC Lung model
#9027	-	Susceptible	○	○	-	-	○	-	-	-
#27853	-	Susceptible	○	○	○	○	○	○	-	○
#6206	-	Susceptible	○	○	○	○	○	○	○	○
#0259	-	Susceptible	○	○	○	-	-	-	-	-
#27624	-	CRPA	○	○	○	○	○	-	-	-
#0108	VIM-2	CRPA	○	○	○	○	-	-	-	-
#0230	VIM-2	CRPA	○	○	○	-	-	-	-	-
#0054	VIM-4	CRPA	○	○	○	○	-	-	-	-
#0103	IMP-1	CRPA	○	○	○	○	-	-	-	-
#0246	NDM-1	CRPA	○	○	○	○	○	○	○	○
#0064	SPM-1	CRPA	○	○	○	○	-	-	-	-
#0105	OXA-2	CRPA	○	○	○	○	-	-	-	-
#0094	-	CRPA	○	○	○	○	-	-	-	-
#0229	-	CRPA	○	○	○	-	-	-	-	-
#0234	-	CRPA	○	○	○	-	-	-	-	-
#0264	-	CRPA	○	○	○	○	-	-	-	-
#0266	-	CRPA	○	○	○	○	○	○	-	-
<i>Pseudomonas aeruginosa</i> Screen MIC panel			PP291							

✓ Assay item part of panel, CRPA: Carbapenem Resistant *Pseudomonas aeruginosa*, MDR, IC: the lung model performed with immunocompetent mice

感染モデルマウス(グラム陽性菌)

Staphylococcus aureus (グラム陽性菌)			Assay					
Strain	Notable AMR genes	Antibiotic resistance	MIC panel	MIC	Thigh model	Lung model	Peritonitis model	Septicemia(IV)
#29213	-	Susceptible	○	○	○	○	-	-
#19636	-	Susceptible	○	○	○	-	○	-
#33591	MecA	MRSA	○	○	○	○	○	-
#33592	MecA	MRSA	○	○	-	-	○	-
#1556	MecA	MRSA USA 300	○	○	○	○	○	○
#1717	MecA	MRSA USA 300	○	○	-	-	-	○
#2	MecA VanA	VanA VRSA	○	○	○	-	○	-
Staphylococcus aureus Screen MIC panel			PP292					

✓ Assay item part of panel, MRSA: methicillin resistant S. aureus, VRSA: vancomycin resistant

Enterococcus faecalis (グラム陽性菌)			Assay		
Strain	Notable AMR genes	Antibiotic resistance	MIC	Peritonitis model	Septicemia(IV)
#29212	-	Susceptible	○	○	-
#51575	VanB	VRE	○	○	○

VRE: vancomycin resistant Enterococcus

Streptococcus pneumoniae (グラム陽性菌)			Assay		
Strain	Antibiotic resistance	MIC	Thigh model	Lung model	Peritonitis model
#6301	Susceptible	○	-	○	○

Streptococcus pyogenes (グラム陽性菌)			Assay		
Strain	Antibiotic resistance	MIC	Thigh model	Lung model	Peritonitis model
#14289	Susceptible	○	○	-	○

卵巣摘出マウスを用いた淋菌膣感染モデル

Neisseria gonorrhoeae (グラム陰性菌)		Assay	
Strain	Antibiotic resistance*	MIC (Parental strain)	Vaginal Infection
#700825	STR-R	○	○
#0179	AZM-NS, PEN-I, TET-I, STR-R	○	○
#0181	AZM-HLR, PEN-I, TET-R, STR-R	○	○
#13820	AZM-I, CIP-HLR, CRO-HLR, PEN-R, TET-R, STR-R	○	○

*Antibiotic resistance: Azithromycin (AZM), Ceftriaxone (CRO), Penicillin (PEN), Tetracycline (TET), Streptomycin (STR).
High level resistance (HLR), Resistant (R), Non susceptible (NS), Intermediate (I).

尿路感染症モデルマウス

Escherichia coli and Klebsiella pneumoniae (グラム陰性菌)				Assay		
Strain	Species	Antibiotic resistance	Notable AMR genes	MIC	C3H/HeJ UTI	C3H/HeN diabetic UTI
#700336	E. coli	Susceptible	-	○	○	○
#0055	E. coli	CRE	NDM-1	○	○	-
#0097	K. pneumoniae	CRE	KPC-3	○	○	-

CRE: Carbapenem Resistant Enterobacteriaceae, MDR

皮膚感染症モデルマウス

Staphylococcus aureus (グラム陽性菌)			Assay	
Strain	Notable AMR genes	Antibiotic resistance	MIC	Dermal infection
#19636	-	Susceptible	○	○
#1556	MecA	MRSA USA 300, MDR	○	○
#1717	MecA	MRSA USA 300	○	○

MRSA: methicillin resistant S. aureus

クロストリジウム・ディフィシル大腸炎モデル(ハムスター)

Clostridium difficile (グラム陽性菌)			Assay
Strain	Ribotype	MIC	Hamster colitis model
#1805	Ribotype 027	○	○

In vivo Infection Models with Fungi

Aspergillus fumigatus		Assay		
Strain	MIC	Lung model	Systemic (IV)	
#13073	○	○	○	

Candida albicans		Assay		
Strain	MIC	Systemic(IV)	Vulvovaginal Candidiasis	
#10231	○	○	-	
#44858	○	○	○	
#303	○	○	-	
#357	○	○	○	