

BD Phoenix™ Panels

Giving you confidence
in accurate detection¹ of
antimicrobial resistance



BD Phoenix™ panels

Flexible panel formats stored at room temperature:

- ID-only - Gram positive, Gram negative, Yeast
- AST-only - Gram positive, Gram negative, Emerge Panel
- Combo - Gram positive, Gram negative, Strep



BD Phoenix™ Emerge extended AST-only panels

- True MIC derived from dilutions using doubling antibiotic concentrations
- Embedded detection of resistance markers

ID: Identification

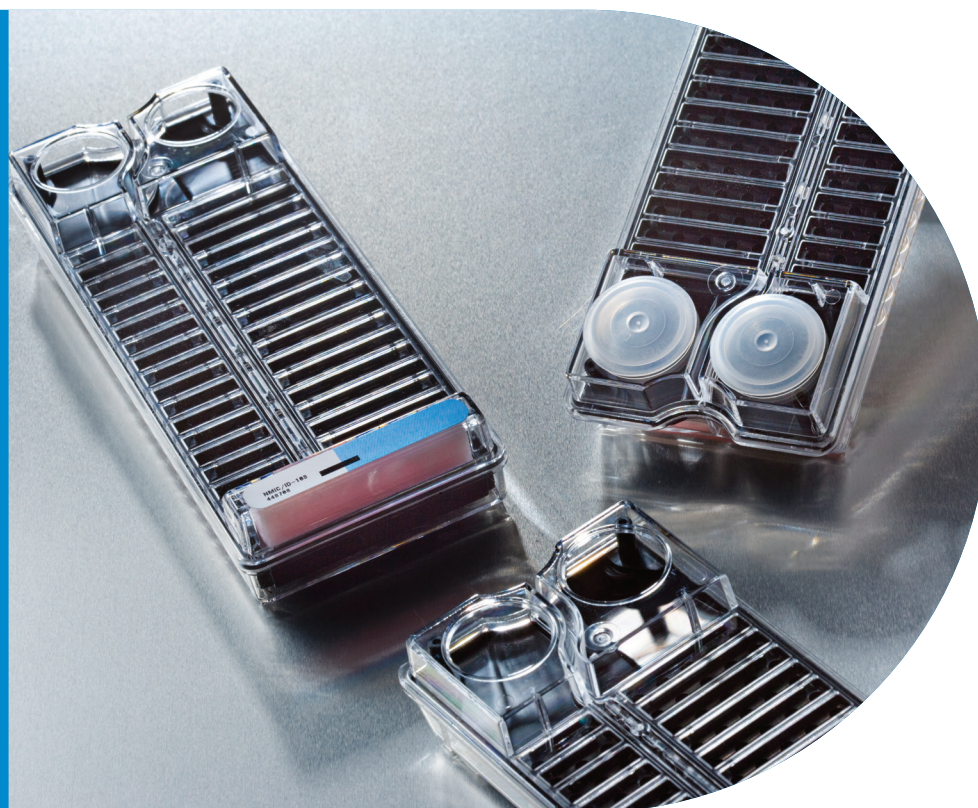
AST: Antimicrobial Susceptibility Testing

Combo: Combined ID and AST

BD Phoenix™ Combo and AST-only

- Multiple combinations of Gram-negative and Gram-positive panels to fit different needs
- Gram-negative fermenters, nonfermenters and urine panels
- Two formats of Gram-positive panels for Enterococcus and Staphylococcus
- Most products available in combo (ID / AST) and AST-only format

All Phoenix™ panels comply with either EUCAST or CLSI guidelines.



Accurate detection¹ of antimicrobial resistances with new drugs and concentrations



Highlights: Gram-negative panels

Penicillin

Amoxicillin / Clavulanate up to 32 / 2 µg / ml for SIR determination of bacteria responsible for uncomplicated UTI

Ceftolozane–tazobactam and Ceftazidime–avibactam

Third-generation cephalosporin and beta-lactamase inhibitor combination with activity against extended-spectrum beta-lactamase (ESBL) producers, carbapenem-resistant Enterobacteriaceae (CRE), and *Pseudomonas aeruginosa*^{2,5}

Carbapenem

Lower concentrations allow easier detection of nonsusceptible carbapenem organisms and resistances of clinical and / or epidemiological importance⁶

- Ertapenem and Imipenem range starting from 0,25 µg
- Meropenem starting from 0,125 µg in line with the screening cut-off proposed by EUCAST

Meropenem/vaborbactam

Important therapeutic strategy in patients with MDR Gram-negative infections and listed in the WHO's list of essential medicines, because of its activity against priority 1 antibiotic-resistant pathogens.²

Tigecycline

First member of the glycylcyclines and increasingly used for the treatment of multidrug-resistant organisms³



Highlights: Gram-positive panels

Cephalosporin

Ceftaroline: an advanced-generation cephalosporin that has bactericidal activity against Gram-positive pathogens including MRSA strains⁷

Tigecycline

Activity against a wide variety of Gram-positive including multidrug-resistant strains³

BD Phoenix™ Emerge

AST-only extended panels for wider scope in the detection of antimicrobial resistance

- Largest number of panel wells of any automated ID/AST system
- Accurate detection of carbapenem-resistant Enterobacteriaceae⁶
- More drugs and wide range of serial two-fold dilutions for many key antibiotics
- Real MIC detection
- The BDxpert™ system and BD EpiCenter™ systems for better detection, expertise and real-time communication

Gram Negative Emerge Panels								
BD reference number	448764	449001	449023	449025	449041	449056	449727	449728
Panel Name	NMIC-203	NMIC-417	NMIC-500	NMIC-502	NMIC-501	NMIC-505	NMIC-474	NMIC-475
Guideline	CLSI	EUCAST	CLSI	EUCAST	CLSI	EUCAST	EUCAST	EUCAST
Antimicrobial (µg/ml) concentration range								
PENICILLIN								
Ampicillin (AM)	4-16	2-8	4-16	2-8	4-16	4-16	2-8	2-8
Amoxicillin (AMX)	-	-	-	-	-	4-32	-	-
Piperacillin (PIP)	-	4-64	-	4-64	-	-	-	-
Mecillinam (MEC)	-	2-8	-	2-8	-	-	-	2-8
Temocillin (TEM)	-	4-32	-	4-32	-	-	4-32	4-16
β-LACTAM COMBINATION AGENT								
Amoxicillin-Clavulanate (AMC)	4-16	-	-	-	-	-	-	-
Amoxicillin-Clavulanate (f) (AXC)	-	2-32	-	2-32	-	2-32	2-32	2-32
Ampicillin-Sulbactam (f) (SXA)	-	-	-	-	-	1-4	-	-
Ampicillin-Sulbactam (SAM)	-	-	4-16	-	4-16	-	-	-
Ceftazidime-Avibactam (CZA)	-	-	0.25-8	0.25-8	0.25-8	0.25-16	0.25-8	0.25-8
Ceftolozane-Tazobactam (CT)	-	-	-	-	1-8	0.5-2	0.5-4	0.5-4
Meropenem-Vaborbactam (MEV)	-	-	-	-	-	-	2-8	2-8
Piperacillin-Tazobactam (TZP)	4-64	4-64	4-64	4-64	4-64	4-32	4-64	4-16
Ticarcillin-Clavulanate (TIM)	4-64	4-64	-	-	-	-	-	-
CEPHEMS								
Cefazolin (CZ)	1-8	-	2-16	-	2-16	4-32	-	-
Cefepime (FEP)	0.5-16	1-16	1-16	1-16	1-16	1-16	1-8	1-8
Cefixime (CFM)	-	0.5-2	-	0.5-2	-	0.5-2	-	-
Cefotaxime (CTX)	-	-	-	-	-	1-4	-	-
Cefoxitin (FOX)	4-32	4-16	4-16	-	4-16	-	4-16	-
Ceftazidime (CAZ)	0.5-32	0.5-16	-	-	-	-	-	-
Ceftazidime (CAZ)	-	-	0.5-16	0.5-8	0.5-16	1-16	0.5-16	0.5-8
Ceftriaxone (CRO)	0.5-32	0.5-4	0.5-4	0.5-4	0.5-4	1-4	0.5-4	1-4
Cefuroxime (CXM)	-	2-8	4-16	2-8	4-16	4-16	2-8	2-8
Cephalexin (CN)	4-32	4-16	-	4-16	-	-	-	4-16
MONOBACTAMS								
Aztreonam (ATM)	0.5-16	1-16	1-16	1-16	1-16	-	1-16	1-16
CARBAPENEMS								
Ertapenem (ETP)	0.25-2	0.25-1	0.25-1	0.25-1	0.25-1	0.25-2	0.25-1	0.25-1
Imipenem (IPM)	1-8	0.25-8	0.25-8	0.25-8	0.25-8	0.25-8	0.25-8	0.25-8
Meropenem (MEM)	0.25-16	0.25-8	0.25-32	0.125-8	0.25-32	0.125-8	0.125-16	0.125-8
LIPOPEPTIDES								
Colistin (CL)	1-4	1-4	1-4	0.5-2	1-4	1-4	0.5-4	0.5-4
AMINOGLYCOSIDES								
Amikacin (AN)	4-32	4-16	4-32	4-16	4-32	4-32	4-16	4-16
Gentamicin (GM)	1-8	1-4	2-8	1-4	2-8	1-4	1-4	1-4
Tobramycin (NN)	1-8	1-4	-	1-4	-	2-8	1-4	1-4
TETRACYCLINES								
Minocycline (MI)	-	-	1-16	-	1-16	-	-	-
Tetracycline (TE)	2-16	-	-	-	-	-	-	-
GLYCYLCLYCLINE								
Tigecycline (TGC)	0.5-4	0.5-2	1-4	0.5-2	1-4	1-4	0.5-2	0.5-2
PHENICOL								
Chloramphenicol (C)	4-32	-	-	-	-	-	-	-
FLUOROQUINOLONES								
Ciprofloxacin (CIP)	0.125-2	0.25-1	0.0625-2	0.0625-1	0.0625-2	0.0625-1	0.0625-1	0.0625-1
Levofloxacin (LVX)	-	0.5-2	1-4	0.5-2	1-4	0.5-8	0.25-1	0.25-1
Norfloxacin (NOR)	0.25-8	0.5-2	2-8	-	2-8	-	0.5-2	0.5-2
Ofloxacin (OFX)	-	-	-	-	-	0.5-2	-	-
QUINOLONE								
Nalidixic Acid (NA)	-	4-16	-	-	-	-	-	-
FOLATE PATHWAY ANTAGONIST								
Trimethoprim (TMP)	1-8	1-4	-	-	-	-	-	1-4
Trimethoprim-Sulfamethoxazole (SXT)	1-8	1-4	0.5-2	1-4	0.5-2	1-8	1-4	1-4
NITROFURAN								
Nitrofurantoin (FM)	32-128	16-64	32-128	16-64	32-128	-	16-64	16-64
FOSFOMYCINS								
Fosfomycin w/G6P (FF)	16-64	16-128	16-128	16-128	16-128	16-64	16-64	16-64
OTHER								
CPO detect	No	No	Yes	Yes	Yes	Yes	Yes	Yes
CPO detect Ambler class	No	No	Yes	Yes	Yes	Yes	Yes	Yes
ESBL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Gram Positive Emerge Panels		
BD reference number	448420	449009
Panel Name	PMIC-84	PMIC-96
Guideline	CLSI	EUCAST
Antimicrobial (µg/ml)		
PENICILLIN		
Ampicillin (AM)	0.25-16	1-16
Penicillin G (P)	0.0625-8	0.0625-0.25
Oxacillin (OX)	0.125-4	0.25-2
β-LACTAM COMBINATION AGENT		
Amoxicillin-Clavulanate (AMC)	2-8	-
CEPHEMS		
Cefazolin (CZ)	2-8	-
Cefoxitin (FOX)	2-8	2-8
Ceftaroline (CPT)	-	0.125-1
Moxalactam (MOX)	-	2-16
GLYCOPEPTIDES		
Vancomycin (VA)	0.5-16	0.5-8
Teicoplanin (TEC)	1-16	0.5-8
LIPOPEPTIDES		
Daptomycin (DAP)	0.5-4	0.25-4
AMINOGLYCOSIDES		
Gentamicin (GM)	0.5-8	1-4
Gentamicin-Syn (GMS)	500	500
Kanamycin (K)	-	8-32
Kanamycin-Syn (KS)	-	250
Tobramycin (NN)	-	1-4
Streptomycin-Syn (STS)	1000	-
MACROLIDES		
Erythromycin (E)	0.25-4	0.25-4
TETRACYCLINES		
Tetracycline (TE)	-	0.5-2
Doxycycline (D)	0.5-4	-
FLUOROQUINOLONES		
Ciprofloxacin (CIP)	0.5-2	0.5-4
Levofloxacin (LVX)	-	0.5-4
Moxifloxacin (MXF)	0.25-2	0.25-2
Norfloxacin (NOR)	1-16	-
NITROFURAN		
Nitrofurantoin (FM)	32-128	16-64
LINCOSAMIDES		
Clindamycin (CC)	0.125-4	0.25-1
FOLATE PATHWAY ANTAGONIST		
Trimethoprim (TMP)	0.5-8	0.5-4
Trimethoprim-Sulfamethoxazole (SXT)	0.5-8	0.5-4
ANSAMYCINS		
Rifampin (RA)	0.25-8	0.25-2
FOSFOMYCINS		
Fosfomycin w/G6P (FF)	16-64	16-64
OXAZOLIDINONES		
Linezolid (LZD)	2-8	0.5-4
CARBAPENEMS		
Imipenem (IPM)	-	1-8
GLYCYLCLYCLINE		
Tigecycline (TGC)	-	0.125-1
PHENICOL		
Chloramphenicol (C)	1-16	1-16
OTHER		
Mupirocin (MUP)	0.5-4	0.5-8
Mupirocin High level (MUH)	256	256
Fusidic Acid (FA)	0.5-8	0.5-8
Inducible Macrolide resistance test	Yes	Yes



BD Phoenix™ Emerge panels offer 136 wells for susceptibility testing, allowing for a variety of therapeutic options

BD Phoenix™ panels

BD Phoenix™ Combo and AST-only

- Multiple combinations of Gram-negative and Gram-positive panels to fit different needs
- Gram-negative fermenters, nonfermenters and urine panels
- Two formats of Gram-positive panels for Enterococcus and Staphylococcus
- Most products available in combo (ID / AST) and AST-only format
- Embedded detection of resistance markers

Gram Negative AST Panels							
BD reference number	448446	448804	448874	448876	448877	449046	449052
Panel Name	UNMIC-416	UNMIC-409	NMIC-402	UNMIC-403	NMIC-408	NMIC-433	UNMIC-432
Guideline	EUCAST	EUCAST	EUCAST	EUCAST	EUCAST	EUCAST	EUCAST
Antimicrobial (µg/ml) concentration range							
PENICILLIN							
Ampicillin (AM)	2-8	2-8	2-8	2-8	2-8	4-16	4
Piperacillin (PIP)	-	-	4-16	-	4-16	-	-
Mecillinam (MEC)	2-8	-	-	-	-	-	-
Temocillin (TEM)	2-8	4-32	-	-	4-32	-	-
Ticarcillin (TIC)	4-16	-	-	-	-	-	-
β-LACTAM COMBINATION AGENT							
Amoxicillin-Clavulanate (f) (AXC)	2-32	2-32	2-32	2-32	2-32	2-16	2-32
Ampicillin-Sulbactam (f) (SXA)	-	-	-	-	-	1-8	-
Ceftolozane-Tazobactam (CT)	-	-	-	-	-	1-4	-
Piperacillin-Tazobactam (TZP)	4-16	4-16	4-16	4-16	4-16	4-16	4-32
CEPHEMS							
Cefazolin (CZ)	-	-	-	-	-	4-32	4-32
Cefepime (FEP)	0.5-4	1-8	1-8	1-8	1-8	1-8	-
Cefixime (CFM)	0.25-1	-	-	0.5-2	-	-	0.5-4
Cefotaxime (CTX)	1-4	-	1-4	1-4	-	-	-
Cefoxitin (FOX)	4-16	4-16	-	-	4-16	-	-
Ceftazidime (CAZ)	-	1-8	0.5-8	0.5-8	1-8	1-8	2-16
Ceftriaxone (CRO)	-	1-4	-	-	1-4	1-4	1-4
Cefuroxime (CXM)	-	2-8	2-8	2-8	2-8	4-16	-
Cephalexin (CN)	4-16	-	-	4-16	-	-	-
CARBAPENEMS							
Ertapenem (ETP)	0.125-1	0.25-1	0.25-1	0.25-1	0.25-1	0.25-1	0.25-2
Imipenem (IPM)	0.25-8	0.25-8	0.25-8	0.25-8	0.25-8	0.25-8	0.25-8
Meropenem (MEM)	-	0.125-8	0.125-8	0.125-8	0.125-8	0.125-8	0.125-8
LIPOPEPTIDES							
Colistin (CL)	-	-	1-4	-	1-4	1-4	-
AMINOGLYCOSIDES							
Amikacin (AN)	4-16	4-16	4-16	-	4-16	8-32	8-32
Gentamicin (GM)	1-4	1-4	1-4	1-4	1-4	2-8	2-8
Tobramycin (NN)	-	-	1-4	1-4	1-4	-	2-8
TETRACYCLINES							
Tigecycline (TGC)	-	-	0.5-2	0.5-2	0.5-2	0.5-2	1-4
FLUOROQUINOLONES							
Ciprofloxacin (CIP)	0.25-1	0.25-1	0.25-1	0.25-1	0.25-1	0.0625-1	0.25-1
Levofloxacin (LVX)	-	-	0.5-2	-	0.5-2	0.5-2	0.5-4
Norfloxacin (NOR)	0.5-2	0.5-2	-	-	-	-	-
NITROFURAN							
Nitrofurantoin (FM)	16-64	16-64	-	16-64	-	-	32-128
FOSFOMYCINS							
Fosfomycin w/G6P (FF)	16-128	16-64	16-64	16-64	-	-	16-64
FOLATE PATHWAY ANTAGONIST							
Trimethoprim (TMP)	-	1-4	-	1-4	-	-	-
Trimethoprim-Sulfamethoxazole (SXT)	1-4	1-4	1-4	1-4	1-4	2-8	2-8
QUINOLONE							
Nalidixic Acid (NA)	8-32	-	-	-	-	-	-
OTHER							
CPO detect	No	No	No	No	No	No	No
CPO detect Ambler class	No	No	No	No	No	No	No
ESBL	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Gram Positive AST Panels			
BD reference number	448439	448798	449055
Panel Name	PMIC-90	PMIC-88	PMIC-600
Guideline	EUCAST	EUCAST	EUCAST
Antimicrobial (µg/ml)			
PENICILLIN			
Ampicillin (AM)	2-8	2-8	2-16
Penicillin G (P)	0.0625-0.25	0.0625-0.25	0.125-0.5
Oxacillin (OX)	0.25-2	0.25-2	0.25-4
β-LACTAM COMBINATION AGENT			
Amoxicillin-Clavulanate (AMC)	-	-	2-8
CEPHEMS			
Cefoxitin (FOX)	2-8	2-8	2-16
Ceftaroline (CPT)	0.125-1	0.125-1	-
GLYCOPEPTIDES			
Vancomycin (VA)	0.5-4	0.5-8	1-16
Teicoplanin (TEC)	1-4	0.5-8	1-8
LIPOPEPTIDES			
Daptomycin (DAP)	-	0.5-4	1-4
AMINOGLYCOSIDES			
Amikacin (AN)	4-16	-	4-16
Gentamicin (GM)	1-4	1-4	1-4
Gentamicin-Syn (GMS)	500	500	500
Streptomycin-Syn (STS)	-	-	1000
Tobramycin (NN)	1-4	-	-
MACROLIDES			
Erythromycin (E)	0.25-2	0.25-2	0.25-4
TETRACYCLINES			
Tetracycline (TE)	0.5-2	0.5-2	0.5-2
Tigecycline (TGC)	-	0.25-1	-
FLUOROQUINOLONES			
Ciprofloxacin (CIP)	0.25-4	0.5-4	1-4
Levofloxacin (LVX)	-	-	1-8
Moxifloxacin (MXF)	0.25-1	0.25-1	0.25-1
NITROFURAN			
Nitrofurantoin (FM)	16-64	16-64	32-128
LINCOSAMIDES			
Clindamycin (CC)	0.25-1	0.25-1	0.25-1
FOLATE PATHWAY ANTAGONIST			
Trimethoprim (TMP)	1-4	-	-
Trimethoprim-Sulfamethoxazole (SXT)	1-4	1-4	2-8
ANSAMYCINS			
Rifampin (RA)	0.25-1	0.25-1	0.25-1
FOSFOMYCINS			
Fosfomycin w/G6P (FF)	16-64	16-64	8-32
OXAZOLIDNONES			
Linezolid (LZD)	0.5-4	0.5-4	2-8
CARBAPENEMS			
Imipenem (IPM)	-	2-8	-
OTHER			
Fusidic Acid (FA)	1-8	0.5-8	1-8
Mupirocin (MUP)	1-4	-	-
Mupirocin High level (MUH)	256	256	-
Inducible Macrolide resistance test	Yes	Yes	Yes



Select the best formulations to meet your needs. Available in Combo and AST-only

Gram Negative Combo (ID + AST) Panels																
BD reference number	448103	448443	448445	448620	448781	448794	448805	448873	448878	449012	449026	449027	449040	449044	449045	449053
Panel Name	NMIC/ ID-76	NMIC/ ID-414	UNMIC/ ID-416	NMIC/ ID-415	NMIC/ ID-94	NMIC/ ID-402	UNMIC/ ID-409	UNMIC/ ID-403	NMIC/ ID-408	NMIC/ ID-418	NMIC/ ID-503	NMIC/ ID-504	NMIC/ ID-431	NMIC/ ID-435	NMIC/ ID-433	UNMIC/ ID-432
Guideline	EUCAST	EUCAST	EUCAST	EUCAST	CLSI	EUCAST	EUCAST	EUCAST	EUCAST	EUCAST	EUCAST	CLSI	CLSI	EUCAST	EUCAST	EUCAST
Antimicrobial (µg/ml) concentration range																
PENICILLIN																
Ampicillin (AM)	2-8	2-8	2-8	-	4-16	2-8	2-8	2-8	2-8	2-8	2-8	4-16	4-16	4-16	4-16	4-16
Mecillinam (MEC)	-	-	2-8	-	-	-	-	-	-	2-8	-	-	-	-	-	-
Temocillin (TEM)	-	-	2-8	-	-	-	4-32	-	4-32	-	4-32	-	-	-	-	-
Ticarcillin (TIC)	-	4-16	4-16	4-64	-	-	-	-	-	-	-	-	-	-	-	-
Piperacillin (PIP)	-	4-16	-	4-64	-	4-16	-	-	4-16	-	-	-	-	-	-	-
β-LACTAM COMBINATION AGENT																
Amoxicillin-Clavulanate (AMC)	-	-	-	-	4-16	-	-	-	-	-	-	4-16	-	-	-	-
Amoxicillin-Clavulanate (f) (AXC)	2-8	2-32	2-32	-	-	2-32	2-32	2-32	2-32	2-32	2-32	-	-	2-16	2-16	2-32
Ampicillin-Sulbactam (f) (SXA)	-	-	-	-	-	-	-	-	-	-	-	-	-	1-8	1-8	-
Ampicillin-Sulbactam (SAM)	-	-	-	-	-	-	-	-	-	-	-	4-16	-	-	-	-
Ceftazidime-Avibactam (CZA)	-	-	-	-	-	-	-	-	-	-	0.25-8	0.25-8	-	-	-	-
Ceftolozane-Tazobactam (CT)	-	-	-	-	-	-	-	-	-	-	-	-	1-8	-	1-4	-
Piperacillin-Tazobactam (TZP)	4-16	4-16	4-16	4-64	4-64	4-16	4-16	4-16	4-16	4-16	4-16	4-64	4-64	4-16	4-16	4-32
Ticarcillin-Clavulanate (TIM)	-	4-16	-	4-64	-	-	-	-	-	-	-	-	-	-	-	-
CEPHEMS																
Cefazolin (CZ)	1-4	-	-	-	-	-	-	-	-	-	-	2-16	4-16	4-32	4-32	4-32
Cefepime (FEP)	-	1-4	0.5-4	1-16	1-16	1-8	1-8	1-8	1-8	-	1-8	1-16	1-16	1-8	1-8	-
Cefixime (CFM)	-	-	0.25-1	-	-	-	-	0.5-2	-	-	-	-	-	-	-	0.5-4
Cefotaxime (CTX)	0.5-4	0.5-4	1-4	-	-	1-4	-	1-4	-	0.5-4	-	-	-	-	-	-
Cefoxitin (FOX)	-	4-16	4-16	-	4-16	-	4-16	-	4-16	-	-	-	-	-	-	-
Ceftazidime (CAZ)	0.5-8	0.5-4	-	1-16	1-16	0.5-8	1-8	0.5-8	1-8	0.5-8	-	-	-	-	-	-
Ceftazidime (CAZ)	-	-	-	-	-	-	-	-	-	-	1-8	2-16	2-16	1-8	1-8	2-16
Ceftriaxone (CRO)	-	-	-	-	1-32	-	1-4	-	1-4	-	1-4	1-4	1-32	1-4	1-4	1-4
Cefuroxime (CXM)	1-8	-	-	-	4-16	2-8	2-8	2-8	2-8	2-8	2-8	-	4-16	4-16	4-16	-
Cephalexin (CN)	2-16	4-16	4-16	-	-	-	-	4-16	-	4-16	-	-	-	-	-	-
Cephalothin (CF)	-	-	-	-	4-16	-	-	-	-	-	-	-	-	-	-	-
MONOBACTAMS																
Aztreonam (ATM)	1-16	-	-	1-16	2-16	-	-	-	-	1-16	-	-	-	-	-	-
CARBAPENEMS																
Ertapenem (ETP)	0.25-1	0.125-1	0.125-1	-	0.25-4	0.25-1	0.25-1	0.25-1	0.25-1	0.25-1	0.25-1	0.25-1	0.25-1	0.25-1	0.25-1	0.25-2
Imipenem (IPM)	1-8	0.25-8	0.25-8	0.125-8	1-8	0.25-8	0.25-8	0.25-8	0.25-8	0.25-8	0.25-8	0.25-8	0.25-4	0.25-8	0.25-8	0.25-8
Meropenem (MEM)	1-8	0.125-8	-	0.125-8	1-8	0.125-8	0.125-8	0.125-8	0.125-8	0.125-8	0.125-8	0.5-16	0.5-4	0.125-8	0.125-8	0.125-8
LIPOPEPTIDES																
Colistin (CL)	1-4	-	-	1-4	1-4	1-4	-	-	1-4	-	1-4	1-4	1-4	0.5-4	1-4	-
AMINOGLYCOSIDES																
Amikacin (AN)	4-16	4-16	4-16	4-16	8-32	4-16	4-16	-	4-16	4-16	4-16	8-32	8-32	8-32	8-32	8-32
Gentamicin (GM)	1-4	1-4	1-4	1-4	2-8	1-4	1-4	1-4	1-4	1-4	1-4	2-8	2-8	2-8	2-8	2-8
Tobramycin (NN)	1-4	1-4	-	1-4	-	1-4	-	1-4	1-4	1-4	-	-	-	-	-	2-8
TETRACYCLINES																
Minocycline (MI)	-	-	-	1-8	-	-	-	-	-	-	-	1-8	-	-	-	-
GLYCCLYCLINE																
Tigecycline (TGC)	-	0.5-2	-	-	1-4	0.5-2	-	0.5-2	0.5-2	0.5-2	0.5-2	1-4	1-4	0.5-4	0.5-2	1-4
FLUOROQUINOLONES																
Ciprofloxacin (CIP)	0.125-1	0.25-1	0.25-1	0.25-2	0.5-2	0.25-1	0.25-1	0.25-1	0.25-1	0.125-1	0.25-1	0.125-2	0.5-2	0.0625-1	0.0625-1	0.25-1
Levofloxacin (LVX)	-	-	-	0.5-4	1-4	0.5-2	-	-	0.5-2	-	0.5-2	-	1-4	0.5-2	0.5-2	0.5-4
Norfloxacin (NOR)	-	0.5-2	0.5-2	-	-	-	0.5-2	-	-	-	-	-	-	-	-	-
QUINOLONE																
Nalidixic Acid (NA)	-	-	8-32	-	-	-	-	-	-	-	-	-	-	-	-	-
FOLATE PATHWAY ANTAGONIST																
Trimethoprim (TMP)	1-4	-	-	-	-	-	1-4	1-4	-	1-4	-	-	-	-	-	-
Trimethoprim-Sulfamethoxazole (SXT)	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	2-8	2-8	2-8
NITROFURAN																
Nitrofurantoin (FM)	16-64	-	16-64	-	16-64	-	16-64	16-64	-	32-128	-	-	16-64	-	-	32-128
FOSFOMYCINS																
Fosfomycin w/G6P (FF)	16-64	-	16-128	-	-	16-64	16-64	16-64	-	-	-	-	-	-	-	16-64
OTHER																
CPO detect	No	No	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes	No	No
CPO detect Ambler class	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
ESBL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Gram Positive Combo (ID + AST) Panels								
BD reference number	448444	448616	448619	448761	448796	449038	449057	448785
Panel Name	PMIC/ ID-93	PMIC/ ID-94	PMIC/ ID-90	PMIC/ ID-69	PMIC/ ID-88	PMIC/ ID-111	PMIC/ID- 600	SMIC/ ID-11
Guideline	EUCAST	EUCAST	EUCAST	CLSI	EUCAST	CLSI	EUCAST	CLSI/EUCAST
Antimicrobial (µg/ml) concentration range								
PENICILLIN								
Ampicillin (AM)	-	0.5-8	2-8	2-8	2-8	2-8	2-16	-
Amoxicillin (AMX)	-	-	-	-	-	-	-	0.25-4
Penicillin G (P)	0.0625-0.25	-	0.0625-0.25	0.0625-0.25	0.0625-0.25	0.125-8	0.125-0.5	0.03125-4
Oxacillin (OX)	0.25-2	-	0.25-2	0.25-2	0.25-2	0.25-2	0.25-4	-
β-LACTAM COMBINATION AGENT								
Amoxicillin-Clavulanate (AMC)	-	-	-	1-4	-	-	2-8	-
Amoxicillin-Clavulanate (f) (AXC)	-	2-8	-	-	-	-	-	-
CEPHEMS								
Cefepime (FEP)	-	-	-	-	-	-	-	0.5-2
Cefotaxime (CTX)	-	-	-	8-32	-	8-32	-	0.5-2
Cefoxitin (FOX)	2-8	-	2-8	2-8	2-8	2-8	2-16	-
Ceftaroline (CPT)	0.25-1	-	0.125-1	-	0.125-1	0.25-2	-	-
Cefuroxime (CXM)	-	-	-	-	-	-	-	0.25-2
Moxalactam (MOX)	2-16	-	-	-	-	-	-	-
GLYCOPEPTIDES								
Vancomycin (VA)	0.5-2	0.5-8	0.5-4	0.5-16	0.5-8	1-16	1-16	0.5-4
Teicoplanin (TEC)	0.5-4	0.5-2	1-4	1-16	0.5-8	1-16	1-8	1-4
LIPOPEPTIDES								
Daptomycin (DAP)	1-4	0.5-4	-	1-4	0.5-4	1-4	1-4	0.25-1
AMINOGLYCOSIDES								
Amikacin (AN)	-	-	4-16	-	-	-	4-16	-
Gentamicin (GM)	1-4	-	1-4	2-8	1-4	2-8	1-4	-
Gentamicin-Syn (GMS)	-	500	500	500	500	500	500	250-1000
Kanamycin (K)	8-32	-	-	-	-	-	-	-
Kanamycin-Syn (KS)	-	250	-	-	-	-	-	-
Tobramycin (NN)	1-4	-	1-4	-	-	-	-	-
Streptomycin-Syn (STS)	-	1000	-	-	-	-	1000	-
MACROLIDES								
Erythromycin (E)	0.25-2	0.25-8	0.25-2	0.25-4	0.25-2	0.25-4	0.25-4	0.0625-0.5
TETRACYCLINES								
Tetracycline (TE)	0.5-2	0.5-8	0.5-2	0.5-8	0.5-2	0.5-8	0.5-2	0.5-4
FLUOROQUINOLONES								
Ciprofloxacin (CIP)	-	0.5-4	0.25-4	0.5-2	0.5-4	0.5-2	1-4	-
Levofloxacin (LVX)	0.5-2	0.25-4	-	-	-	1-4	1-8	0.5-4
Moxifloxacin (MXF)	-	-	0.25-1	0.5-2	0.25-1	0.5-2	0.25-1	0.25-2
NITROFURAN								
Nitrofurantoin (FM)	-	16-64	16-64	16-64	16-64	16-64	32-128	-
LINCOSAMIDES								
Clindamycin (CC)	0.25-1	-	0.25-1	0.5-2	0.25-1	0.5	0.25-1	0.03125-0.5
FOLATE PATHWAY ANTAGONIST								
Trimethoprim (TMP)	-	-	1-4	-	-	-	-	-
Trimethoprim-Sulfamethoxazole (SXT)	1-4	0.5-2	1-4	1-4	1-4	1-4	2-8	0.5-2
ANSAMYCINS								
Rifampin (RA)	0.25-1	0.25-4	0.25-1	0.5-2	0.25-1	0.5-2	0.25-1	-
FOSFOMYCINS								
Fosfomycin w/G6P (FF)	8-32	16-128	16-64	-	16-64	-	8-32	-
OXAZOLIDINONES								
Linezolid (LZD)	1-4	0.5-8	0.5-4	1-4	0.5-4	1-4	2-8	0.5-4
CARBAPENEMS								
Imipenem (IPM)	-	1-8	-	2-8	2-8	-	-	-
Meropenem (MEM)	-	-	-	-	-	-	-	0.125-2
GLYCYLCYCLINE								
Tigecycline (TGC)	0.125-0.5	0.0625-0.5	-	-	0.25-1	0.25-1	-	-
PHENICOL								
Chloramphenicol (C)	-	1-16	-	-	-	-	-	2-8
OTHER								
Mupirocin (MUP)	0.5-4	-	1-4	-	-	-	-	-
Mupirocin High level (MUH)	256	-	256	256	256	256	-	-
Fusidic Acid (FA)	1-8	-	1-8	1-8	0.5-8	-	1-8	-
Inducible Macrolide resistance test	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No

Consumables

Consumables for Manual Panel Preparation

Reagents	ID ONLY	AST	AST (Emerge)	COMBO	Strep
BD Phoenix™ ID Broth 4.5mL [246001] or 2.2mL [246005]	✓	✓	✓	✓	✓
BD Phoenix™ AST Broth 8mL [246003]		✓		✓	
BD Phoenix™ AST Indicator [246004]		✓		✓	
BD Phoenix™ AST broth 12.5mL - Emerge [246016]			✓		
BD Phoenix™ AST Indicator- Emerge [246015]			✓		
BD Phoenix™ AST-S Broth 8mL [246007]					✓
BD Phoenix™ AST-S Indicator [246009]					✓
BD Phoenix™ Pipette Tips [448037]		✓	✓	✓	✓

Consumables for Phoenix™ AP Panel Preparation

Reagents	ID ONLY	AST	COMBO	Strep
BD Phoenix™ ID Broth 4.5mL [246001] or 2.2mL [246005]	✓	✓	✓	✓
BD Phoenix™ AST Broth 8mL [246003]		✓	✓	✓
BD Phoenix™ AST broth-Emerge 4.5mL [246011]			✓	
BD Phoenix™ AP AST Indicator [246006]		✓	✓	✓
BD Phoenix™ AP Pipette Tips [448038]	✓	✓	✓	✓
BD Phoenix™ AP ID Solution [448012]	✓	✓	✓	✓
BD Phoenix™ AP Tubing [448015]	✓	✓	✓	✓
BD Phoenix™ AP Solid waste bin [448013]	✓	✓	✓	✓
BD Phoenix™ AP Waste Liquid Bottle [448014]	✓	✓	✓	✓



BD Phoenix system is CE marked in compliance to the European IVD Directive 98/79/EC

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