

Unyvero is designed to expand with your growing needs

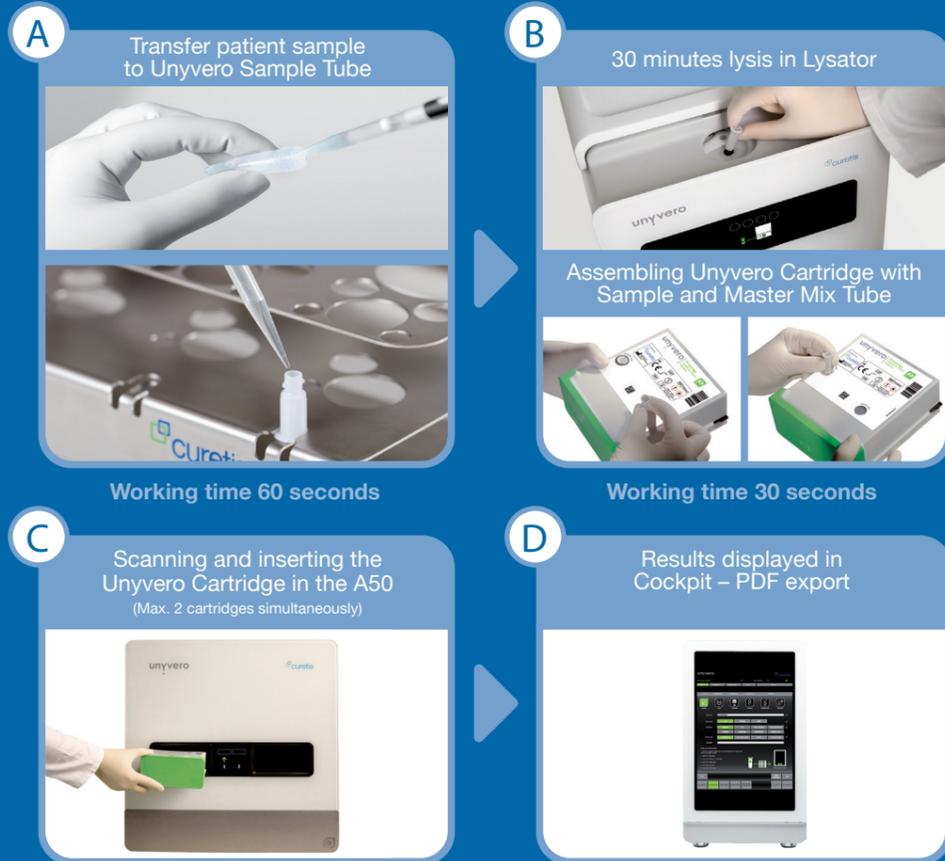
- Blood Culture – BCU
- Hospitalized Pneumonia – HPN
- Implant & Tissue Infection – ITI
- Intra-Abdominal Infection – IAI
- Urinary Tract Infection – UTI



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System Workflow



Working time 60 seconds

Working time 30 seconds

Working time 20 seconds

4 to 5 hour analysis process



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Urinary Tract Infection (UTI) Cartridge

Gram-positive bacteria	Non-fermenting bacteria	Resistance	Gene
<i>Staphylococcus aureus</i> Coagulase negative staphylococci <i>Staphylococcus saprophyticus</i> <i>Streptococcus agalactiae</i> <i>Enterococcus</i> spp. <i>Enterococcus faecalis</i> <i>Enterococcus faecium</i> <i>Corynebacterium urealyticum</i>	<i>Acinetobacter baumannii</i> complex <i>Pseudomonas aeruginosa</i>	Oxacillin	<i>mecA</i>
		Glycopeptides	<i>vanA</i> <i>vanB</i>
		3rd generation Cephalosporins	<i>ctx-M</i>
		Carbapenem	<i>imp</i> <i>kpc</i> <i>ndm</i> <i>oxa-23</i> <i>oxa-24/40</i> <i>oxa-48</i> <i>vim</i>
		Polypeptides / polymyxins	<i>mcr-1</i>
		Fluoroquinolones	<i>qnrB</i> <i>qnrS</i>
		Sulfonamide	<i>sul1</i>
Enterobacterales	Anaerobic bacteria	Fungi	
<i>Enterobacteriaceae</i> <i>Citrobacter freundii</i> / <i>koseri</i> <i>Klebsiella aerogenes</i> (<i>E. aerogenes</i>) <i>Enterobacter cloacae</i> complex <i>Escherichia coli</i> <i>Klebsiella oxytoca</i> <i>Klebsiella pneumoniae</i> <i>Klebsiella variicola</i> <i>Proteus</i> spp. <i>Providencia</i> spp.	<i>Bacteroides</i> spp. / <i>Prevotella</i> spp.	<i>Candida</i> spp. <i>Candida albicans</i> <i>Candida auris</i> <i>Candida glabrata</i>	

Sample Types
Urine (mid-stream, suprapubic, fresh catheter), tissue

25 Pathogens, 15 Antibiotic Resistance Markers

curetis
an OpGen group company



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Panel Overview



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Blood Culture (BCU) Cartridge

Gram-positive bacteria	Non-fermenting bacteria	Fungi														
<i>Staphylococcus aureus</i> Coagulase negative staphylococci <i>Streptococcus</i> spp. <i>Streptococcus agalactiae</i> <i>Streptococcus pneumoniae</i> <i>Streptococcus pyogenes / dysgalactiae</i> <i>Enterococcus</i> spp. <i>Enterococcus faecalis</i> <i>Listeria monocytogenes</i>	<i>Acinetobacter baumannii</i> complex <i>Pseudomonas aeruginosa</i> <i>Stenotrophomonas maltophilia</i>	<i>Aspergillus</i> spp. <i>Candida</i> spp. <i>Candida albicans</i> <i>Candida dubliniensis</i> <i>Candida glabrata</i> <i>I. orientalis (C. krusei)</i> <i>Candida parapsilosis</i> <i>Candida tropicalis</i>														
Enterobacterales	Anaerobic bacteria	Resistance Gene														
<i>Citrobacter freundii / koseri</i> <i>Escherichia coli</i> <i>Enterobacter cloacae</i> complex <i>Klebsiella aerogenes (E. aerogenes)</i> <i>Klebsiella oxytoca</i> <i>Klebsiella pneumoniae</i> <i>Klebsiella variicola</i> <i>Proteus</i> spp. <i>Serratia marcescens</i>	<i>Cutibacterium acnes (P. acnes)</i>	<table border="1"> <thead> <tr> <th>Resistance</th> <th>Gene</th> </tr> </thead> <tbody> <tr> <td>Aminoglycoside</td> <td><i>aac(6)/aph(2⁺)</i> <i>aacA4</i></td> </tr> <tr> <td>Macrolide/Lincosamide</td> <td><i>ermA</i></td> </tr> <tr> <td>Oxacillin</td> <td><i>mecA</i> <i>mecC</i></td> </tr> <tr> <td>Glycopeptides</td> <td><i>vanA</i> <i>vanB</i></td> </tr> <tr> <td>3rd generation Cephalosporins</td> <td><i>ctx-M</i></td> </tr> <tr> <td>Carbapenem</td> <td><i>imp</i> <i>kpc</i> <i>ndm</i> <i>oxa-23</i> <i>oxa-24/40</i> <i>oxa-48</i> <i>oxa-58</i> <i>vim</i></td> </tr> </tbody> </table>	Resistance	Gene	Aminoglycoside	<i>aac(6)/aph(2⁺)</i> <i>aacA4</i>	Macrolide/Lincosamide	<i>ermA</i>	Oxacillin	<i>mecA</i> <i>mecC</i>	Glycopeptides	<i>vanA</i> <i>vanB</i>	3rd generation Cephalosporins	<i>ctx-M</i>	Carbapenem	<i>imp</i> <i>kpc</i> <i>ndm</i> <i>oxa-23</i> <i>oxa-24/40</i> <i>oxa-48</i> <i>oxa-58</i> <i>vim</i>
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Corynebacteriaceae	Mycobacteriaceae															
<i>Corynebacterium</i> spp.	<i>Mycobacterium</i> spp.															

Sample Types

Positively flagged blood cultures

34 Pathogens, 16 Antibiotic Resistance Markers



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Hospitalized Pneumonia (HPN) Cartridge

Gram-positive bacteria	Non-fermenting bacteria	Resistance Gene																
<i>Staphylococcus aureus</i> <i>Streptococcus pneumoniae</i>	<i>Moraxella catarrhalis</i> <i>Pseudomonas aeruginosa</i> <i>Acinetobacter baumannii</i> complex <i>Stenotrophomonas maltophilia</i> <i>Legionella pneumophila</i>	<table border="1"> <thead> <tr> <th>Resistance</th> <th>Gene</th> </tr> </thead> <tbody> <tr> <td>Macrolide/Lincosamide</td> <td><i>ermB</i></td> </tr> <tr> <td>Oxacillin</td> <td><i>mecA</i> <i>mecC</i></td> </tr> <tr> <td>Penicillin</td> <td><i>tem</i> <i>shv</i></td> </tr> <tr> <td>3rd generation Cephalosporins</td> <td><i>ctx-M</i></td> </tr> <tr> <td>Carbapenem</td> <td><i>imp</i> <i>kpc</i> <i>ndm</i> <i>oxa-23</i> <i>oxa-24/40</i> <i>oxa-48</i> <i>oxa-58</i> <i>vim</i></td> </tr> <tr> <td>Sulfonamide</td> <td><i>sul1</i></td> </tr> <tr> <td>Fluoroquinolone</td> <td><i>gyrA83</i> <i>gyrA87</i></td> </tr> </tbody> </table>	Resistance	Gene	Macrolide/Lincosamide	<i>ermB</i>	Oxacillin	<i>mecA</i> <i>mecC</i>	Penicillin	<i>tem</i> <i>shv</i>	3rd generation Cephalosporins	<i>ctx-M</i>	Carbapenem	<i>imp</i> <i>kpc</i> <i>ndm</i> <i>oxa-23</i> <i>oxa-24/40</i> <i>oxa-48</i> <i>oxa-58</i> <i>vim</i>	Sulfonamide	<i>sul1</i>	Fluoroquinolone	<i>gyrA83</i> <i>gyrA87</i>
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Fluoroquinolone	<i>gyrA83</i> <i>gyrA87</i>																	
Enterobacterales	Others/Fungi																	
<i>Citrobacter freundii</i> <i>Escherichia coli</i> <i>Enterobacter cloacae</i> complex <i>Klebsiella aerogenes (E. aerogenes)</i> <i>Proteus</i> spp. <i>Klebsiella pneumoniae</i> <i>Klebsiella oxytoca</i> <i>Klebsiella variicola</i> <i>Serratia marcescens</i> <i>Morganella morganii</i>	<i>Pneumocystis jirovecii</i> <i>Haemophilus influenzae</i> <i>Mycoplasma pneumoniae</i> <i>Chlamydia (Chlamydophila) pneumoniae</i>																	

Sample Types

Sputum, bronchoalveolar lavage, respiratory aspirates (tracheal and bronchial secretions)

21 Pathogens, 17 Antibiotic Resistance Markers



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Implant & Tissue Infection (ITI) Cartridge

Gram-positive bacteria	Non-fermenting bacteria	Fungi														
<i>Staphylococcus aureus</i> Coagulase negative staphylococci <i>Streptococcus</i> spp. <i>Streptococcus agalactiae</i> <i>Streptococcus pneumoniae</i> <i>Streptococcus pyogenes / dysgalactiae</i> <i>Granulicatella adiacens</i> <i>Abiotrophia defectiva</i> <i>Enterococcus</i> spp. <i>Enterococcus faecalis</i>	<i>Acinetobacter baumannii</i> complex <i>Pseudomonas aeruginosa</i>	<i>Candida</i> spp. <i>Candida albicans</i> <i>Candida glabrata</i> <i>I. orientalis (C. krusei)</i> <i>Candida tropicalis</i>														
Enterobacterales	Anaerobic bacteria	Resistance Gene														
<i>Citrobacter freundii / koseri</i> <i>Escherichia coli</i> <i>Enterobacter cloacae</i> complex <i>Klebsiella aerogenes (E. aerogenes)</i> <i>Klebsiella pneumoniae</i> <i>Klebsiella oxytoca</i> <i>Klebsiella variicola</i> <i>Proteus</i> spp.	<i>Cutibacterium acnes (P. acnes)</i> <i>Finogoldia magna</i> <i>Bacteroides fragilis</i> group	<table border="1"> <thead> <tr> <th>Resistance</th> <th>Gene</th> </tr> </thead> <tbody> <tr> <td>Macrolide/Lincosamide</td> <td><i>ermA</i> <i>ermC</i></td> </tr> <tr> <td>Aminoglycoside</td> <td><i>aac(6)/aph(2⁺)</i> <i>aacA4</i></td> </tr> <tr> <td>Oxacillin</td> <td><i>mecA</i> <i>mecC</i></td> </tr> <tr> <td>Glycopeptides</td> <td><i>vanA</i> <i>vanB</i></td> </tr> <tr> <td>3rd generation Cephalosporins</td> <td><i>ctx-M</i></td> </tr> <tr> <td>Carbapenem</td> <td><i>imp</i> <i>kpc</i> <i>ndm</i> <i>oxa-23</i> <i>oxa-24/40</i> <i>oxa-48</i> <i>oxa-58</i> <i>vim</i></td> </tr> </tbody> </table>	Resistance	Gene	Macrolide/Lincosamide	<i>ermA</i> <i>ermC</i>	Aminoglycoside	<i>aac(6)/aph(2⁺)</i> <i>aacA4</i>	Oxacillin	<i>mecA</i> <i>mecC</i>	Glycopeptides	<i>vanA</i> <i>vanB</i>	3rd generation Cephalosporins	<i>ctx-M</i>	Carbapenem	<i>imp</i> <i>kpc</i> <i>ndm</i> <i>oxa-23</i> <i>oxa-24/40</i> <i>oxa-48</i> <i>oxa-58</i> <i>vim</i>
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Corynebacteriaceae																
<i>Corynebacterium</i> spp.																

Sample Types

Synovial fluid, sonication fluid, exudate/pus, transudate, puncture fluid, tissue, bone fragments, swabs, drainage fluid, catheter tips

29 Pathogens, 17 Antibiotic Resistance Markers



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Intra-Abdominal Infection (IAI) Cartridge

Gram-positive bacteria	Anaerobic/facultative anaerobic bacteria	Toxin	Marker																				
Coagulase negative staphylococci <i>Enterococcus faecalis</i> <i>Enterococcus</i> spp. <i>Streptococcus</i> spp. <i>Staphylococcus aureus</i>	<i>Aeromonas</i> spp. <i>Bacteroides fragilis</i> group <i>Bacteroides</i> spp. / <i>Prevotella</i> spp. <i>Clostridioides difficile (C. difficile)</i> <i>Clostridium perfringens</i> <i>Finogoldia magna</i> <i>Cutibacterium acnes (P. acnes)</i>	Toxin B Shiga Toxin	<i>tcdB</i> <i>stx1/2</i>																				
Enterobacterales	Non-fermenting bacteria	Resistance Gene																					
<i>Escherichia coli</i> <i>Klebsiella aerogenes (E. aerogenes)</i> <i>Enterobacter cloacae</i> complex <i>Klebsiella pneumoniae</i> <i>Klebsiella oxytoca</i> <i>Klebsiella variicola</i> <i>Proteus</i> spp.	<i>Acinetobacter baumannii</i> complex <i>Pseudomonas aeruginosa</i>	<table border="1"> <thead> <tr> <th>Resistance</th> <th>Gene</th> </tr> </thead> <tbody> <tr> <td>Oxacillin</td> <td><i>mecA</i> <i>mecC</i></td> </tr> <tr> <td>Glycopeptides</td> <td><i>vanA</i> <i>vanB</i></td> </tr> <tr> <td>Aminoglycoside</td> <td><i>aacA4</i></td> </tr> <tr> <td>3rd generation Cephalosporins</td> <td><i>ctx-M</i></td> </tr> <tr> <td>Fosfomycin</td> <td><i>fosA3</i></td> </tr> <tr> <td>Polypeptides/polymyxins</td> <td><i>mcr-1</i></td> </tr> <tr> <td>Nitroimidazole</td> <td><i>nimA</i> <i>nimB</i></td> </tr> <tr> <td>Fluoroquinolone</td> <td><i>qnrA</i> <i>qnrB</i> <i>qnrS</i></td> </tr> <tr> <td>Tetracycline</td> <td><i>tetA</i></td> </tr> </tbody> </table>	Resistance	Gene	Oxacillin	<i>mecA</i> <i>mecC</i>	Glycopeptides	<i>vanA</i> <i>vanB</i>	Aminoglycoside	<i>aacA4</i>	3rd generation Cephalosporins	<i>ctx-M</i>	Fosfomycin	<i>fosA3</i>	Polypeptides/polymyxins	<i>mcr-1</i>	Nitroimidazole	<i>nimA</i> <i>nimB</i>	Fluoroquinolone	<i>qnrA</i> <i>qnrB</i> <i>qnrS</i>	Tetracycline	<i>tetA</i>	
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Sample Types

Ascites, peritoneal fluid, pancreatic juice, bile, tissue, puncture fluid, swabs, catheter/drainage tips, positive blood culture inoculated with ascites/puncture fluid

26 Pathogens, 2 Toxins, 22 Antibiotic Resistance Markers