Quantitative Polymerase Chain Reaction - qPCR

We offer our clients a next generation quantitative PCR based assay that identifies organisms associated with UTI's and identifies potential antibiotic resistance without the need of culture

Open Array Format with 18(x3) Assays and 48 Samples

Contact us:

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PREMIER MEDICAL LAB

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Edison, NJ 08820

PREMIER MEDICAL LAB

• FAST • ACCURATE • CONVENIENT • RELIABLE

We offer a next generation Real-time qPCR

We provide:

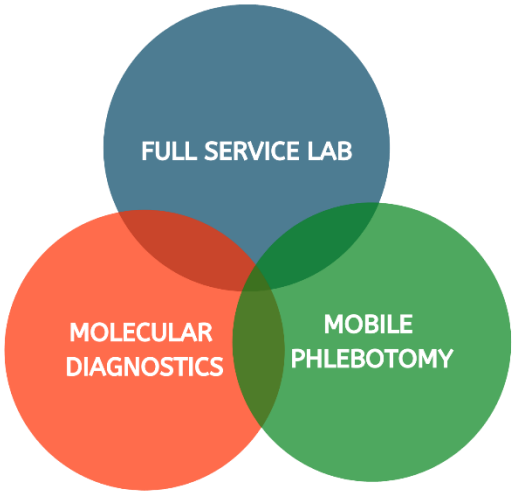
- Specimen **Collection**
- **Next Day** results
- **Easy Access** via web portal

ABR Gene Analysis Included in PML Assay

Target Gene	Antibiotic
OXA-1	β-lactamase (class D)
FOX	AmpC β-lactamase (Class C)
GES	Carbapenemase (Class A)
KPC	Carbapenemase (Class A)
IMP-1	Carbapenemase (Class B)
NDM-1 (C)	Carbapenemase (Class B)
blaOXA-48	Carbapenemase (Class D)
PER-1	Extended Spectrum β-lactamase (Cl. A)
VEB	Extended Spectrum β-lactamase (Cl. A)
CTX-M Group 1	Extended-Spectrum-β-Lactamase
CTX-M Group 2	Extended-Spectrum-β-Lactamase
CTX-M Group 8/25	Extended-Spectrum-β-Lactamase
CTX-M Group 9	Extended-Spectrum-β-Lactamase
ermB	Macrolide Resistance
qnrA	Quinolone Resistance
qnrS	Quinolone Resistance
VIM	vim-β-lactamase
vanC1	Vancomycin resistance
TETM	Tetracycline resistance
DHA	AmpC resistance
IMP-2 group	Carbapenem resistance
SUL1	Sulfonamide resistance
DFRA1	Trimethoprim resistance
DFRA5	Trimethoprim resistance
TEM R162S	Extended-Spectrum-β-Lact.
aac6-1b/aacA4	Aminoglycoside
aac6-1b-cr	Aminoglycoside

Organisms Included in PML TFI Assay

- Acinetobacter baumannii
- Citrobacter freundii
- Enterobacter aerogenes
- Enterobacter cloacae
- Enterococcus faecalis
- Enterococcus faecium
- Escherichia coli
- Klebsiella oxytoca
- Klebsiella pneumoniae
- Morganella morganii
- Proteus mirabilis
- Proteus vulgaris
- Providencia stuartii
- Pseudomonas aeruginosa
- Staphylococcus saprophyticus
- Streptococcus agalactiae
- **Candida albicans**



UTI/ABR vs Traditional Urine C&S

- **Full report Next Day** vs up to 72hrs in traditional C&S
- **Removes "human factor"** in organism identification
- Does not miss **anaerobic bacteria**
- Identifies **fungal infection** by C. albicans (clinically mimics bacterial UTIs, but missed by traditional C&S)
- **Greater precision** in identification and characterization of UTIs
- **Not limited to the number of pathogens** identified per sample
- Potential **antibiotic resistance identified** concurrently with UTI
- Improves clinical outcome
- Clear and easy to interpret reporting