# COMING SOON D<sup>3</sup>Array-UTI

Pathogen Detection + Antibiotic Resistance



# UTI DETECTION PLUS ANTIBIOTIC RESISTANCE IN A RAPID, AFFORDABLE TEST.

Treatment of Urinary Tract Infections is time-consuming, taking anywhere from 2-5 days if antibiotic resistance genes are also tested. When misdiagnosed and further treatment becomes necessary, costs become unmanageable. PathogenDx D<sup>3</sup> Array-UTI is a fast multiplexed platform for urinary pathogen detection run simultaneously with Antibiotic Resistance genes to support clinicians in delivering rapid UTI treatment and management.

#### **TECHNOLOGY OVERVIEW**

D<sup>3</sup> Array-UTI is a fast, enrichment-free and sensitive multiplexed PCR nucleic acid test for the detection of uropathogens and their associated antibiotic resistance gene markers in the clinical setting.

- More flexible, faster and lower cost test than qPCR or NGS technology
- Testing for all targets of interest in a single well
- Each sample analyzed in triplicate for Quality Assurance
- 3D cross-linked array architecture enabling rapid binding
- Based on our patented technology

#### **D3 ARRAY-UTI TESTS FOR:**

#### **BACTERIAL SPECIES:**

- Acinetobacter baumannii
- Aerococcus urinae
- Citrobacter freundi
- Enterobacter (aerogenes, cloacae)
- Enterococcus (faecalis, faecium)
- Escherichia coli
- Klebsiella (oxytoca, pneumoniae)
- Morganella morganii
- Mycoplasma (hominis, genitalium)
- Proteus (mirabilis, vulgaris)
- Providencia stuartiiPseudomonas aeruginosa
- Pseudomonas aerugino
  Serratia marcescens
- Serratia marcescens
- Staphylococcus (aureus, saprophyticus, agalactiae)
- Ureaplasma (parvum, urealyticum)

#### **FUNGAL SPECIES:**

Candida (albicans, glabrata)

#### ANTIBIOTIC RESISTANCE GENE MARKERS:

- Carbapenem (NDM-1, CTX-M all, CTX-M-1, CTX-M-25, CTX-M-9)
- Sulfomide, Trimethoprim dfrA1
- Carbapenem (IMP, KPC)
- Colisitn mcr-1
- ESBL (blaTEM, SHV, VEB, blaNDM-1, OXA-1, GES)
- Methicillin mecA
- Carbapenem (OXA-23, OXA-48, OXA-58)
- Quinolone and fluoroquinolone (qnrA, qnrB, qnrS)
- Quinolone resistance (Gyrase A)
- Sulfonamide, Trimethoprim SUL1 and SUL2
- Tetracycline TetM
- Carbapenem Vim-2
- Vancomycin Resistance Genes VanA, VanB
- Ampicillin (blaACT/MIR, ampC, ACC, DHA)
- Aminoglycoside (aac6-1b/aacA4, ant(3), aph(A6), aac6-1b-cr)

## CUT WASTE AND COSTS.

With its foil-sealed 96-well plate, D<sup>3</sup> Array-UTI enables labs to use only the wells needed and reuse plates instead of tossing for lab efficiencies.



# D<sup>3</sup> ARRAY-UTI EFFICIENT LAB WORKFLOW



One Step PCR Dual Hybridization (Speciation & Antibiotic Resistance Gene Markers)



Automated Analysis

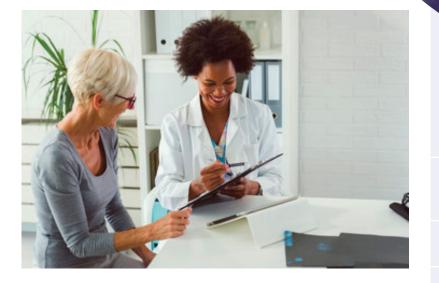
Results



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# D<sup>3</sup>Array-UTI

Pathogen Detection + Antibiotic Resistance



#### GAIN NEW EFFICIENCIES FOR UTI TESTING.

In the world of human diagnostics, the D<sup>3</sup> (Dynamic Dimensional Detection) Array delivers both the accuracy required to promote public health and the business efficiencies laboratories need to better support their workflow. In the case of Urinary Tract Infection, providing a proper diagnosis is a race against the clock risking:

- Continued pain and discomfort
- Chronic infections
- Kidney infection (pyelonephritis)
- Narrowing of the male urethra
- Severe Sepsis and Septic Shock

D<sup>3</sup> Array-UTI enables quicker, more effective diagnosis to improve treatment and save lives.

## **KEY FEATURES**

Lower cost vs the current standard qPCR test

Identify both the pathogen causing the infection and the antibiotic resistance gene marker in the same test

Automated and seamless reporting vs time wasted reviewing wells

Compatible with automation for an even faster turnaround time

Perfect for high-throughput labs

Compatible with most PCR equipment



#### **ABOUT PATHOGEND**x

PathogenDx is a biotechnology innovator based in Tucson, Arizona, developing diagnostic solutions to address viral, bacterial and fungal infection or contamination. We've reinvented molecular testing to identify pathogens faster and easier, driving greater safety and business optimization. We deliver next-gen arrays for better health and safety—empowering the future of safe. To learn more about D<sup>3</sup> Array-UTI, CALL: 800-641-5751 OR EMAIL: info@pathogendx.com

PathogenDx