

COMING SOON

D³ Array-UTI

Pathogen Detection + Antibiotic Resistance



 **PathogenDx**

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 D³ 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

D³ 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 freundii*
- *Enterobacter (aerogenes, cloacae)*
- *Enterococcus (faecalis, faecium)*
- *Escherichia coli*
- *Klebsiella (oxytoca, pneumoniae)*
- *Morganella morganii*
- *Mycoplasma (hominis, genitalium)*
- *Proteus (mirabilis, vulgaris)*
- *Providencia stuartii*
- *Pseudomonas aeruginosa*
- *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)
- Sulfonamide, Trimethoprim *dfrA1*
- Carbapenem (IMP, KPC)
- Colisitin *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, D³ Array-UTI enables labs to use only the wells needed and reuse plates instead of tossing for lab efficiencies.



D³ ARRAY-UTI EFFICIENT LAB WORKFLOW

Sample
prep



One Step
PCR



Dual Hybridization
(Speciation & Antibiotic
Resistance Gene Markers)



Automated
Analysis



Results



D³ Array-UTI

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GAIN NEW EFFICIENCIES FOR UTI TESTING.

In the world of human diagnostics, the D³ (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

D³ 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 PATHOGENDx

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 D³ Array-UTI,
CALL: 800-641-5751

OR

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