

Microbial DNA qPCR Array

Urinary Tract Infections

Cat. no. 330261 BAID-1205Y

For real-time PCR-based, application-specific microbial identification or profiling

The Urinary Tract Infections DNA qPCR Array is a research tool used to screen for bacterial pathogens that typically infect the urinary tract. This array provides microbiology researchers with a convenient way to quickly detect the presence of such organisms in urine samples. The array contains assays for 9 bacterial species including *Acinetobacter baumannii*, *Aerococcus urinae*, *Burkholderia cepacia*, *Enterococcus faecalis*, *Enterococcus faecium*, *Escherichia coli*, *Morganella morganii*, *Pseudomonas aeruginosa*, and *Streptococcus agalactiae*. Assays were designed to detect bacterial 16S rRNA gene sequences and use PCR amplification primers and hydrolysis-probe detection, which increases the specificity of each assay. Each Urinary Tract Infections DNA qPCR Array plate can analyze up to eight samples simultaneously. Pan-bacteria assays that detect a broad range of bacterial species are included to serve as positive controls for bacterial DNA, and the Positive PCR Control assay is included to test for the presence of PCR inhibitors and the efficiency of the polymerase chain reaction. The arrays also include the appropriate Microbial qPCR Mastermix and Microbial DNA-Free Water. Identification of which microorganisms are present in a sample is accomplished using data analysis Excel files after copying and pasting in C_t values generated by the PCR instrument software. The simplicity of the product format and operating procedure allow routine and reliable screening of microorganisms causing urinary tract infections from samples in any research laboratory with access to a real-time PCR instrument.



Format	For use with the following real-time cyclers
Format A, with fluorescein	Bio-Rad® models iCycler®, iQ™5, MyiQ™, MyiQ2
Format A, with ROX	Applied Biosystems® models 5700, 7000, 7300, 7500, 7700, 7900HT, ViiA™ 7 (96-well blocks); Bio-Rad/MJ Research Chromo4™; Eppendorf® Mastercycler® ep realplex models 2, 2s, 4, 4s; Stratagene® models Mx3005P®, Mx3000P®
Format C, with ROX	Applied Biosystems models 7500 (Fast, 96-well block), 7900HT (Fast, 96-well block), StepOnePlus™, ViiA 7 (Fast, 96-well block)
Format D, with ROX	Bio-Rad CFX96™; Bio-Rad/MJ Research models DNA Engine Opticon®, DNA Engine Opticon 2; Stratagene Mx4000®
Format E, with ROX	Applied Biosystems models 7900HT (384-well block), ViiA 7 (384-well block); Bio-Rad CFX384™
Format F, with ROX	Roche® LightCycler® 480 (96-well block)
Format G, with ROX	Roche LightCycler 480 (384-well block)

Shipping and storage

Microbial DNA qPCR Arrays are shipped at ambient temperature or on blue ice packs. For long-term storage, keep plates at –20°C. Ensure that you have the correct Microbial DNA qPCR Array format for your real-time cycler (see table above). Microbial qPCR Mastermixes are shipped on blue ice packs. For long-term storage, keep Microbial qPCR Mastermixes at –20°C. Microbial DNA-Free Water is shipped at ambient temperature or on blue ice packs. If unopened, Microbial DNA-Free Water can be stored at room temperature or at –20°C. If tube is opened, store Microbial DNA-Free Water at –20°C. Discard tube of Microbial DNA-Free Water if opened three times and use fresh tube of Microbial DNA-Free Water for future experiments.

Note: Ensure that you have the correct Microbial qPCR Mastermixes, with the correct reference dye if required, for your instrument.

Note: Open the package and store the products appropriately immediately upon receipt.

Assay Table

Well	Species, Gene, or Control	NCBI Tax ID	Other targeted species	May also detect	Sensitivity	Assay Catalog #
A01	Acinetobacter baumannii	470			100	BPID00004A
A02	Aerococcus urinae	1376			100	BPID00720A
A03	Burkholderia cepacia	292	Burkholderia vietnamiensis(60552) Burkholderia pyrrocinia(60550) Burkholderia cenocepacia(95486)	Burkholderia gladioli(28095)	100	BPID00077A
A04	Enterococcus faecalis	1351			30	BPID00142A
A05	Enterococcus faecium	1352		Enterococcus avium(33945) Enterococcus durans(53345) Enterococcus hirae(1354)	40	BPID00143A
A06	Escherichia coli	562	Escherichia fergusonii(564) Shigella boydii(621) Shigella sonnei(624) Shigella dysenteriae(622) Shigella flexneri(623)	Escherichia albertii(208962) Enterobacter aerogenes(548) Enterobacter cloacae(550) Serratia marcescens(615)	30	BPID00146A
A07	Morganella morganii	582		Escherichia albertii(208962) Providencia alcalifaciens(126385)	100	BPID00224A
A08	Pseudomonas aeruginosa	287			30	BPID00288A
A09	Streptococcus agalactiae	1311			30	BPID00320A
A10	Pan Bacteria 1	2			N/A	BPCL00360A
A11	Pan Bacteria 3	2			N/A	BPCL00362A
A12	PPC	N/A			N/A	BPCL00365A
B01	Acinetobacter baumannii	470			100	BPID00004A
B02	Aerococcus urinae	1376			100	BPID00720A
B03	Burkholderia cepacia	292	Burkholderia vietnamiensis(60552) Burkholderia pyrrocinia(60550) Burkholderia cenocepacia(95486)	Burkholderia gladioli(28095)	100	BPID00077A
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D02	Aerococcus urinae	1376			100	BPID00720A
D03	Burkholderia cepacia	292	Burkholderia vietnamiensis(60552) Burkholderia pyrrocinia(60550) Burkholderia cenocepacia(95486)	Burkholderia gladioli(28095)	100	BPID00077A
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Ordering Information

Product	Contents	Cat. no.
Microbial DNA qPCR Array	Array plate, master mix, and microbial DNA-free water for detection of microbial species or genes	330261
Related Products		
Supplemental Microbial qPCR Mastermix ROX™	2 tubes of 1.35 ml each	330530
Supplemental Microbial qPCR Mastermix Fluor	2 tubes of 1.35 ml each	330540
Microbial DNA-Free Water	12 tubes of 1.35 ml each	338132

No Template Control (NTC) $C_t > 35$; Microbial DNA Positive Control $C_t < 34$

Note: On Stratagene instruments, C_t of the positive control template > 34

Microbial DNA qPCR Arrays are intended for molecular biology use only. These products are not intended for the diagnosis, prevention, or treatment of a disease..

Visit www.qiagen.com today to view the full array list!

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