

Microbial DNA qPCR Array

Urinary Tract Infections

Cat. no. 330261 BAID-1205ZRA

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

The Urinary Tract Infections Microbial DNA qPCR Array is a research tool used to screen for identification of pathogenic bacteria derived from the urogenital tract. This array provides microbiology researchers with a convenient way to quickly detect the presence of pathogenic microorganisms from urine, urogenital swabs, or other samples that originate from the urogenital tract, and can be used to monitor the frequency of various urinary tract infections in epidemiology research studies. The array contains assays for 12 bacterial pathogens, designed to target the 16S rRNA gene. The assays use PCR amplification primers and hydrolysis-probe detection, which increases the specificity of each assay. Each Urinary Tract Infections Microbial 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 the presence of 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 microbial pathogens are present in a sample is accomplished using data analysis software with imported CT values generated by the PCR instrument software. The simplicity of the product format and operating procedure allow routine and reliable screening of microbial pathogens from samples in any research laboratory with access to a real-time PCR instrument.



Sample & Assay Technologies

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

Position	Species (NCBI Tax ID)/Gene	NCBI Tax ID	Antibiotic classification / Gene Description	May detect (species) / Also detect (antibiotic resistance genes) / Associated species (virulence factor genes)	Sensitivity	Assay Catalog #
A01	Acinetobacter baumannii	470			100	BPID00004A
A02	Aerococcus urinae	1376			100	BPID00020A
A03	Burkholderia vietnamiensis(60552), Burkholderia pyrocinia(60550), Burkholderia cenocepacia(95486) Burkholderia cepacia	292		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 fergusonii(564),Shigella boydii(621),Shigella sonnei(624),Shigella dysenteriae(622), Shigella flexnerii(623) Escherichia coli	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					BPCL00360A
A11	Pan Bacteria 3					BPCL00362A
A12	PPC					BPCL00365A
B01	Acinetobacter baumannii	470			100	BPID00004A
B02	Aerococcus urinae	1376			100	BPID00020A
B03	Burkholderia vietnamiensis(60552), Burkholderia pyrocinia(60550), Burkholderia cenocepacia(95486) Burkholderia cepacia	292		Burkholderia gladioli(28095)	100	BPID00077A
B04	Enterococcus faecalis	1351			30	BPID00142A
B05	Enterococcus faecium	1352		Enterococcus avium(33945), Enterococcus durans(53345), Enterococcus hirae(1354)	40	BPID00143A
B06	Escherichia fergusonii(564),Shigella boydii(621),Shigella sonnei(624),Shigella dysenteriae(622), Shigella flexnerii(623) Escherichia coli	623		Escherichia albertii(208962), Enterobacter aerogenes(548), Enterobacter cloacae(550), Serratia marcescens(615)	30	BPID00146A
B07	Morganella morganii	582		Escherichia albertii(208962), Providencia alcalifaciens(126385)	100	BPID00224A
B08	Pseudomonas aeruginosa	287			30	BPID00288A
B09	Streptococcus agalactiae	1311			30	BPID00320A
B10	Pan Bacteria 1					BPCL00360A
B11	Pan Bacteria 3					BPCL00362A
B12	PPC					BPCL00365A
C01	Acinetobacter baumannii	470			100	BPID00004A
C02	Aerococcus urinae	1376			100	BPID00020A
	Burkholderia vietnamiensis(60552), Burkholderia					

Position	Species (NCBI Tax ID)/Gene	NCBI Tax ID	Antibiotic classification / Gene Description	May detect (species) / Also detect (antibiotic resistance genes) / Associated species (virulence factor genes)	Sensitivity	Assay Catalog #
C03	pyrracinia(60550), Burkholderia cenocepacia(95486) Burkholderia cepacia	292		Burkholderia gladioli(28095)	100	BPID00077A
C04	Enterococcus faecalis	1351			30	BPID00142A
C05	Enterococcus faecium	1352		Enterococcus avium(33945), Enterococcus durans(53345), Enterococcus hirae(1354)	40	BPID00143A
C06	Escherichia fergusonii(564),Shigella boydii(621),Shigella sonnei(624),Shigella dysenteriae(622), Shigella flexneri(623) Escherichia coli	623		Escherichia albertii(208962), Enterobacter aerogenes(548), Enterobacter cloacae(550), Serratia marcescens(615)	30	BPID00146A
C07	Morganella morganii	582		Escherichia albertii(208962), Providencia alcalifaciens(126385)	100	BPID00224A
C08	Pseudomonas aeruginosa	287			30	BPID00288A
C09	Streptococcus agalactiae	1311			30	BPID00320A
C10	Pan Bacteria 1					BPCL00360A
C11	Pan Bacteria 3					BPCL00362A
C12	PPC					BPCL00365A
D01	Acinetobacter baumannii	470			100	BPID00004A
D02	Aerococcus urinae	1376			100	BPID00020A
D03	Burkholderia vietnamiensis(60552), Burkholderia pyrracinia(60550), Burkholderia cenocepacia(95486) Burkholderia cepacia	292		Burkholderia gladioli(28095)	100	BPID00077A
D04	Enterococcus faecalis	1351			30	BPID00142A
D05	Enterococcus faecium	1352		Enterococcus avium(33945), Enterococcus durans(53345), Enterococcus hirae(1354)	40	BPID00143A
D06	Escherichia fergusonii(564),Shigella boydii(621),Shigella sonnei(624),Shigella dysenteriae(622), Shigella flexneri(623) Escherichia coli	623		Escherichia albertii(208962), Enterobacter aerogenes(548), Enterobacter cloacae(550), Serratia marcescens(615)	30	BPID00146A
D07	Morganella morganii	582		Escherichia albertii(208962), Providencia alcalifaciens(126385)	100	BPID00224A
D08	Pseudomonas aeruginosa	287			30	BPID00288A
D09	Streptococcus agalactiae	1311			30	BPID00320A
D10	Pan Bacteria 1					BPCL00360A
D11	Pan Bacteria 3					BPCL00362A
D12	PPC					BPCL00365A
E01	Acinetobacter baumannii	470			100	BPID00004A
E02	Aerococcus urinae	1376			100	BPID00020A
E03	Burkholderia vietnamiensis(60552), Burkholderia pyrracinia(60550), Burkholderia cenocepacia(95486) Burkholderia cepacia	292		Burkholderia gladioli(28095)	100	BPID00077A
E04	Enterococcus faecalis	1351			30	BPID00142A
E05	Enterococcus faecium	1352		Enterococcus avium(33945), Enterococcus durans(53345), Enterococcus hirae(1354)	40	BPID00143A

Position	Species (NCBI Tax ID)/Gene	NCBI Tax ID	Antibiotic classification / Gene Description	May detect (species) / Also detect (antibiotic resistance genes) / Associated species (virulence factor genes)	Sensitivity	Assay Catalog #
E06	Escherichia fergusonii(564),Shigella boydii(621),Shigella sonnei(624),Shigella dysenteriae(622), Shigella flexneri(623) Escherichia coli	623		Escherichia albertii(208962), Enterobacter aerogenes(548), Enterobacter cloacae(550), Serratia marcescens(615)	30	BPID00146A
E07	Morganella morganii	582		Escherichia albertii(208962), Providencia alcalifaciens(126385)	100	BPID00224A
E08	Pseudomonas aeruginosa	287			30	BPID00288A
E09	Streptococcus agalactiae	1311			30	BPID00320A
E10	Pan Bacteria 1					BPCL00360A
E11	Pan Bacteria 3					BPCL00362A
E12	PPC					BPCL00365A
F01	Acinetobacter baumannii	470			100	BPID00004A
F02	Aerococcus urinae	1376			100	BPID00020A
F03	Burkholderia vietnamiensis(60552), Burkholderia pyrracinia(60550), Burkholderia cenocepacia(95486) Burkholderia cepacia	292		Burkholderia gladioli(28095)	100	BPID00077A
F04	Enterococcus faecalis	1351			30	BPID00142A
F05	Enterococcus faecium	1352		Enterococcus avium(33945), Enterococcus durans(53345), Enterococcus hirae(1354)	40	BPID00143A
F06	Escherichia fergusonii(564),Shigella boydii(621),Shigella sonnei(624),Shigella dysenteriae(622), Shigella flexneri(623) Escherichia coli	623		Escherichia albertii(208962), Enterobacter aerogenes(548), Enterobacter cloacae(550), Serratia marcescens(615)	30	BPID00146A
F07	Morganella morganii	582		Escherichia albertii(208962), Providencia alcalifaciens(126385)	100	BPID00224A
F08	Pseudomonas aeruginosa	287			30	BPID00288A
F09	Streptococcus agalactiae	1311			30	BPID00320A
F10	Pan Bacteria 1					BPCL00360A
F11	Pan Bacteria 3					BPCL00362A
F12	PPC					BPCL00365A
G01	Acinetobacter baumannii	470			100	BPID00004A
G02	Aerococcus urinae	1376			100	BPID00020A
G03	Burkholderia vietnamiensis(60552), Burkholderia pyrracinia(60550), Burkholderia cenocepacia(95486) Burkholderia cepacia	292		Burkholderia gladioli(28095)	100	BPID00077A
G04	Enterococcus faecalis	1351			30	BPID00142A
G05	Enterococcus faecium	1352		Enterococcus avium(33945), Enterococcus durans(53345), Enterococcus hirae(1354)	40	BPID00143A
G06	Escherichia fergusonii(564),Shigella boydii(621),Shigella sonnei(624),Shigella dysenteriae(622), Shigella flexneri(623) Escherichia coli	623		Escherichia albertii(208962), Enterobacter aerogenes(548), Enterobacter cloacae(550), Serratia marcescens(615)	30	BPID00146A
				Escherichia albertii(208962),		

Position	Species (NCBI Tax ID)/Gene	NCBI Tax ID	Antibiotic classification / Gene Description	May detect (species) / Also detect (antibiotic resistance genes) / Associated species (virulence factor genes)	Sensitivity	Assay Catalog #
G07	Morganella morganii	582		Providencia alcalifaciens(126385)	100	BPID00224A
G08	Pseudomonas aeruginosa	287			30	BPID00288A
G09	Streptococcus agalactiae	1311			30	BPID00320A
G10	Pan Bacteria 1					BPCL00360A
G11	Pan Bacteria 3					BPCL00362A
G12	PPC					BPCL00365A
H01	Acinetobacter baumannii	470			100	BPID00004A
H02	Aerococcus urinae	1376			100	BPID00020A
H03	Burkholderia vietnamiensis(60552), Burkholderia pyrocinia(60550), Burkholderia cenocepacia(95486) Burkholderia cepacia	292		Burkholderia gladioli(28095)	100	BPID00077A
H04	Enterococcus faecalis	1351			30	BPID00142A
H05	Enterococcus faecium	1352		Enterococcus avium(33945), Enterococcus durans(53345), Enterococcus hirae(1354)	40	BPID00143A
H06	Escherichia fergusonii(564), Shigella boydii(621), Shigella sonnei(624), Shigella dysenteriae(622), Shigella flexnerii(623) Escherichia coli	623		Escherichia albertii(208962), Enterobacter aerogenes(548), Enterobacter cloacae(550), Serratia marcescens(615)	30	BPID00146A
H07	Morganella morganii	582		Escherichia albertii(208962), Providencia alcalifaciens(126385)	100	BPID00224A
H08	Pseudomonas aeruginosa	287			30	BPID00288A
H09	Streptococcus agalactiae	1311			30	BPID00320A
H10	Pan Bacteria 1					BPCL00360A
H11	Pan Bacteria 3					BPCL00362A
H12	PPC					BPCL00365A

No Template Control (NTC)>35

Microbial DNA Positive Control<34

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

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

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!

Trademarks: QIAGEN®; Bio-Rad®, CFX96™, CFX384™, Chromo4™, iCycler®, IQ™, Opticon® (Bio-Rad Laboratories, Inc.); Eppendorf®, Mastercycler® (Eppendorf AG); Applied Biosystems®, ROX™, StepOnePlus™, ViiA™, (Life Technologies Corp.); Roche®, LightCycler® (Roche Group); Stratagene®, Mx3005P®, Mx3000P®, Mx4000® (Stratagene).

1078146 08/2013 © 2013 QIAGEN, all rights reserved.

www.qiagen.com

Canada ■ 800-572-9613

China ■ 8621-3865-3865

Denmark ■ 80-885945

Finland ■ 0800-914416

France ■ 01-60-920-930

Germany ■ 02103-29-12000

Hong Kong ■ 800 933 965

Ireland ■ 1800 555 049

Italy ■ 800-787980

Japan ■ 03-6890-7300

Korea (South) ■ 080-000-7145

Luxembourg ■ 8002 2076

Mexico ■ 01-800-7742-436

The Netherlands ■ 0800 0229592

Norway ■ 800-18859

Singapore ■ 1800-742-4368

Spain ■ 91-630-7050

Sweden ■ 020-790282

Switzerland ■ 055-254-22-11

UK ■ 01293-422-911

USA ■ 800-426-8157

Australia ■ 1-800-243-800

Austria ■ 0800/281010

Belgium ■ 0800-79612

Brazil ■ 0800-557779



Sample & Assay Technologies