Microbial DNA qPCR Array

Food Testing: Poultry

Cat. no. 330261 BAID-1101ZRA

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

The Poultry Food Testing Microbial DNA qPCR Array is a research tool used to screen for pathogenic bacteria in poultry food testing studies. This array provides microbiology researchers with a convenient way to quickly detect the presence of pathogenic bacteria found in poultry samples, allowing monitoring of bacterial contamination frequency for food research studies. The array contains assays to screen for the presence of 9 bacterial species. These assays are 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 Poultry Food Testing Microbial DNA qPCR Array plate can analyze up to 8 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 bacterial 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 bacterial pathogens from poultry samples in any research laboratory with access to a real-time PCR instrument.

QIAGEN®

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	Aeromonas enteropelogenes(29489), Aeromonas punctata(648), Aeromonas media(651) Aeromonas hydrophila	644		Shewanella benthica(43661)	100	BPID00022A
A02	Arcobacter skirrowii	28200			30	BPID00036A
A03	Campylobacter fetus	196			20	BPID00085A
A04	Campylobacter coli(195),Campylobacter subantarcticus(497724), Campylobacter lari(201) Campylobacter jejuni	197			400	BPID00087A
A05	Clostridium perfringens	1502			100	BPID00112A
A06	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
A07	Listeria monocytogenes	1639		Listeria welshimeri(1643)	200	BPID00208A
A08	Salmonella enterica	28901		Citrobacter amalonaticus(35703)	100	BPID00302A
A09	Shigella dysenteriae	622		Salmonella bongori(54736)	100	BPID00307A
A10	Pan Bacteria 1					BPCL00360A
A11	Pan Bacteria 3					BPCL00362A
A12	PPC					BPCL00365A
B01	Aeromonas enteropelogenes(29489), Aeromonas punctata(648), Aeromonas media(651) Aeromonas hydrophila	644		Shewanella benthica(43661)	100	BPID00022A
B02	Arcobacter skirrowii	28200			30	BPID00036A
B03	Campylobacter fetus	196			20	BPID00085A
B04	Campylobacter coli(195),Campylobacter subantarcticus(497724), Campylobacter lari(201) Campylobacter jejuni	197			400	BPID00087A
B05	Clostridium perfringens	1502			100	BPID00112A
B06	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
B07	Listeria monocytogenes	1639		Listeria welshimeri(1643)	200	BPID00208A
B08	Salmonella enterica	28901		Citrobacter amalonaticus(35703)	100	BPID00302A
B09	Shigella dysenteriae	622		Salmonella bongori(54736)	100	BPID00307A
B10	Pan Bacteria 1					BPCL00360A
B11	Pan Bacteria 3					BPCL00362A
B12	PPC					BPCL00365A
C01	Aeromonas enteropelogenes(29489), Aeromonas punctata(648), Aeromonas media(651) Aeromonas hydrophila	644		Shewanella benthica(43661)	100	BPID00022A
C02	Arcobacter skirrowii	28200			30	BPID00036A
C03	Campylobacter fetus	196			20	BPID00085A
C04	Campylobacter coli(195),Campylobacter subantarcticus(497724), Campylobacter lari(201)	197			400	BPID00087A

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 #
	Campylobacter jejuni					
C05	Clostridium perfringens	1502			100	BPID00112A
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	Listeria monocytogenes	1639		Listeria welshimeri(1643)	200	BPID00208A
C08	Salmonella enterica	28901		Citrobacter amalonaticus(35703)	100	BPID00302A
C09	Shigella dysenteriae	622		Salmonella bongori(54736)	100	BPID00307A
C10	Pan Bacteria 1					BPCL00360A
C11	Pan Bacteria 3					BPCL00362A
C12	PPC					BPCL00365A
D01	Aeromonas enteropelogenes(29489), Aeromonas punctata(648), Aeromonas media(651) Aeromonas hydrophila	644		Shewanella benthica(43661)	100	BPID00022A
D02	Arcobacter skirrowii	28200			30	BPID00036A
D03	Campylobacter fetus	196			20	BPID00085A
D04	Campylobacter coli(195),Campylobacter subantarcticus(497724), Campylobacter lari(201) Campylobacter jejuni	197			400	BPID00087A
D05	Clostridium perfringens	1502			100	BPID00112A
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	Listeria monocytogenes	1639		Listeria welshimeri(1643)	200	BPID00208A
D08	Salmonella enterica	28901		Citrobacter amalonaticus(35703)	100	BPID00302A
D09	Shigella dysenteriae	622		Salmonella bongori(54736)	100	BPID00307A
D10	Pan Bacteria 1					BPCL00360A
D11	Pan Bacteria 3					BPCL00362A
D12	PPC					BPCL00365A
E01	Aeromonas enteropelogenes(29489), Aeromonas punctata(648), Aeromonas media(651) Aeromonas hydrophila	644		Shewanella benthica(43661)	100	BPID00022A
E02	Arcobacter skirrowii	28200			30	BPID00036A
E03	Campylobacter fetus	196			20	BPID00085A
E04	Campylobacter coli(195),Campylobacter subantarcticus(497724), Campylobacter lari(201) Campylobacter jejuni	197			400	BPID00087A
E05	Clostridium perfringens	1502			100	BPID00112A
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	Listeria monocytogenes	1639		Listeria welshimeri(1643)	200	BPID00208A
E08	Salmonella enterica	28901		Citrobacter amalonaticus(35703)	100	BPID00302A
E09	Shigella dysenteriae	622		Salmonella bongori(54736)	100	BPID00307A
E10	Pan Bacteria 1					BPCL00360A

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 #
E11	Pan Bacteria 3					BPCL00362A
E12	PPC					BPCL00365A
F01	Aeromonas enteropelogenes(29489), Aeromonas punctata(648), Aeromonas media(651) Aeromonas hydrophila	644		Shewanella benthica(43661)	100	BPID00022A
F02	Arcobacter skirrowii	28200			30	BPID00036A
F03	Campylobacter fetus	196			20	BPID00085A
F04	Campylobacter coli(195),Campylobacter subantarcticus(497724), Campylobacter lari(201) Campylobacter jejuni	197			400	BPID00087A
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F07	Listeria monocytogenes	1639		Listeria welshimeri(1643)	200	BPID00208A
F08	Salmonella enterica	28901		Citrobacter amalonaticus(35703)	100	BPID00302A
F09	Shigella dysenteriae	622		Salmonella bongori(54736)	100	BPID00307A
F10	Pan Bacteria 1					BPCL00360A
F11	Pan Bacteria 3					BPCL00362A
F12	PPC					BPCL00365A
G01	Aeromonas enteropelogenes(29489), Aeromonas punctata(648), Aeromonas media(651) Aeromonas hydrophila	644		Shewanella benthica(43661)	100	BPID00022A
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G08	Salmonella enterica	28901		Citrobacter amalonaticus(35703)	100	BPID00302A
G09	Shigella dysenteriae	622		Salmonella bongori(54736)	100	BPID00307A
G10	Pan Bacteria 1					BPCL00360A
G11	Pan Bacteria 3					BPCL00362A
G12	PPC					BPCL00365A
H01	Aeromonas enteropelogenes(29489), Aeromonas punctata(648), Aeromonas media(651) Aeromonas hydrophila	644		Shewanella benthica(43661)	100	BPID00022A
H02	Arcobacter skirrowii	28200			30	BPID00036A
H03	Campylobacter fetus	196			20	BPID00085A
H04	Campylobacter coli(195),Campylobacter subantarcticus(497724), Campylobacter lari(201)	197			400	BPID00087A

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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..

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