

Microbial DNA qPCR Array

Food Testing: Vegetable

Cat. no. 330261 BAID-1103ZRA

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

The Vegetable Food Testing Microbial DNA qPCR Array is a research tool used to screen for pathogenic bacteria in vegetable food testing studies. This array provides microbiology researchers with a convenient way to quickly detect the presence of pathogenic bacteria found in various vegetable and herb samples, allowing monitoring of the frequency of bacterial contamination in vegetable samples. The array contains assays to screen for the presence of 7 bacterial species, as well as assays that target 3 different genes for enterohaemorrhagic *Escherichia coli* (EHEC). 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 Vegetable 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 vegetable or herb 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	Bacillus anthracis(1392) Bacillus cereus	1396		Bacillus cytotoxicus(580165), Bacillus weihenstephanensis(86662)	40	BPID00043A
A02	Bacillus sonorensis(119858) Bacillus licheniformis	1402			30	BPID00044A
A03	Klebsiella oxytoca(571) Enterobacter cloacae	550		Citrobacter farmeri(67824), Enterobacter hormaechei(158836), Klebsiella granulomatis(39824), Klebsiella variicola(244366), Enterobacter aerogenes(548), Klebsiella pneumoniae(573), Serratia marcescens(615)	100	BPID00139A
A04	eeae		intimin adherence protein	Escherichia coli	30	BPVF00472A
A05	stx1B		shiga-like toxin 1 subunit B encoded within prophage CP-933V	Escherichia coli, Shigella dysenteriae	20	BPVF00474A
A06	stxA		Shiga toxin subunit A; RNA-N-glycosidase; catalytic subunit	Escherichia coli, Shigella dysenteriae	20	BPVF00506A
A07	Listeria monocytogenes	1639		Listeria welshimeri(1643)	200	BPID00208A
A08	Shigella dysenteriae	622		Salmonella bongori(54736)	100	BPID00307A
A09	Staphylococcus aureus	1280		Staphylococcus epidermidis(1282)	100	BPID00314A
A10	Pan Bacteria 1					BPCL00360A
A11	Pan Bacteria 3					BPCL00362A
A12	PPC					BPCL00365A
B01	Bacillus anthracis(1392) Bacillus cereus	1396		Bacillus cytotoxicus(580165), Bacillus weihenstephanensis(86662)	40	BPID00043A
B02	Bacillus sonorensis(119858) Bacillus licheniformis	1402			30	BPID00044A
B03	Klebsiella oxytoca(571) Enterobacter cloacae	550		Citrobacter farmeri(67824), Enterobacter hormaechei(158836), Klebsiella granulomatis(39824), Klebsiella variicola(244366), Enterobacter aerogenes(548), Klebsiella pneumoniae(573), Serratia marcescens(615)	100	BPID00139A
B04	eeae		intimin adherence protein	Escherichia coli	30	BPVF00472A
B05	stx1B		shiga-like toxin 1 subunit B encoded within prophage CP-933V	Escherichia coli, Shigella dysenteriae	20	BPVF00474A
B06	stxA		Shiga toxin subunit A; RNA-N-glycosidase; catalytic subunit	Escherichia coli, Shigella dysenteriae	20	BPVF00506A
B07	Listeria monocytogenes	1639		Listeria welshimeri(1643)	200	BPID00208A
B08	Shigella dysenteriae	622		Salmonella bongori(54736)	100	BPID00307A
B09	Staphylococcus aureus	1280		Staphylococcus epidermidis(1282)	100	BPID00314A
B10	Pan Bacteria 1					BPCL00360A
B11	Pan Bacteria 3					BPCL00362A
B12	PPC					BPCL00365A
C01	Bacillus anthracis(1392) Bacillus cereus	1396		Bacillus cytotoxicus(580165), Bacillus weihenstephanensis(86662)	40	BPID00043A
C02	Bacillus sonorensis(119858) Bacillus licheniformis	1402			30	BPID00044A

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	Klebsiella oxytoca(571) Enterobacter cloacae	550		Citrobacter farmeri(67824), Enterobacter hormaechei(158836), Klebsiella granulomatis(39824), Klebsiella variicola(244366), Enterobacter aerogenes(548), Klebsiella pneumoniae(573), Serratia marcescens(615)	100	BPID00139A
C04	eae		intimin adherence protein	Escherichia coli	30	BPVF00472A
C05	stx1B		shiga-like toxin 1 subunit B encoded within prophage CP-933V	Escherichia coli, Shigella dysenteriae	20	BPVF00474A
C06	stxA		Shiga toxin subunit A; RNA-N-glycosidase; catalytic subunit	Escherichia coli, Shigella dysenteriae	20	BPVF00506A
C07	Listeria monocytogenes	1639		Listeria welshimeri(1643)	200	BPID00208A
C08	Shigella dysenteriae	622		Salmonella bongori(54736)	100	BPID00307A
C09	Staphylococcus aureus	1280		Staphylococcus epidermidis(1282)	100	BPID00314A
C10	Pan Bacteria 1					BPCL00360A
C11	Pan Bacteria 3					BPCL00362A
C12	PPC					BPCL00365A
D01	Bacillus anthracis(1392) Bacillus cereus	1396		Bacillus cytotoxicus(580165), Bacillus weihenstephanensis(86662)	40	BPID00043A
D02	Bacillus sonorensis(119858) Bacillus licheniformis	1402			30	BPID00044A
D03	Klebsiella oxytoca(571) Enterobacter cloacae	550		Citrobacter farmeri(67824), Enterobacter hormaechei(158836), Klebsiella granulomatis(39824), Klebsiella variicola(244366), Enterobacter aerogenes(548), Klebsiella pneumoniae(573), Serratia marcescens(615)	100	BPID00139A
D04	eae		intimin adherence protein	Escherichia coli	30	BPVF00472A
D05	stx1B		shiga-like toxin 1 subunit B encoded within prophage CP-933V	Escherichia coli, Shigella dysenteriae	20	BPVF00474A
D06	stxA		Shiga toxin subunit A; RNA-N-glycosidase; catalytic subunit	Escherichia coli, Shigella dysenteriae	20	BPVF00506A
D07	Listeria monocytogenes	1639		Listeria welshimeri(1643)	200	BPID00208A
D08	Shigella dysenteriae	622		Salmonella bongori(54736)	100	BPID00307A
D09	Staphylococcus aureus	1280		Staphylococcus epidermidis(1282)	100	BPID00314A
D10	Pan Bacteria 1					BPCL00360A
D11	Pan Bacteria 3					BPCL00362A
D12	PPC					BPCL00365A
E01	Bacillus anthracis(1392) Bacillus cereus	1396		Bacillus cytotoxicus(580165), Bacillus weihenstephanensis(86662)	40	BPID00043A
E02	Bacillus sonorensis(119858) Bacillus licheniformis	1402			30	BPID00044A
E03	Klebsiella oxytoca(571) Enterobacter cloacae	550		Citrobacter farmeri(67824), Enterobacter hormaechei(158836), Klebsiella granulomatis(39824), Klebsiella variicola(244366), Enterobacter aerogenes(548), Klebsiella pneumoniae(573),	100	BPID00139A

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 #
				Serratia marcescens(615)		
E04	eae		intimin adherence protein	Escherichia coli	30	BPVF00472A
E05	stx1B		shiga-like toxin 1 subunit B encoded within prophage CP-933V	Escherichia coli, Shigella dysenteriae	20	BPVF00474A
E06	stxA		Shiga toxin subunit A; RNA-N-glycosidase; catalytic subunit	Escherichia coli, Shigella dysenteriae	20	BPVF00506A
E07	Listeria monocytogenes	1639		Listeria welshimeri(1643)	200	BPID00208A
E08	Shigella dysenteriae	622		Salmonella bongori(54736)	100	BPID00307A
E09	Staphylococcus aureus	1280		Staphylococcus epidermidis(1282)	100	BPID00314A
E10	Pan Bacteria 1					BPCL00360A
E11	Pan Bacteria 3					BPCL00362A
E12	PPC					BPCL00365A
F01	Bacillus anthracis(1392) Bacillus cereus	1396		Bacillus cytotoxicus(580165), Bacillus weihenstephanensis(86662)	40	BPID00043A
F02	Bacillus sonorensis(119858) Bacillus licheniformis	1402			30	BPID00044A
F03	Klebsiella oxytoca(571) Enterobacter cloacae	550		Citrobacter farmeri(67824), Enterobacter hormaechei(158836), Klebsiella granulomatis(39824), Klebsiella variicola(244366), Enterobacter aerogenes(548), Klebsiella pneumoniae(573), Serratia marcescens(615)	100	BPID00139A
F04	eae		intimin adherence protein	Escherichia coli	30	BPVF00472A
F05	stx1B		shiga-like toxin 1 subunit B encoded within prophage CP-933V	Escherichia coli, Shigella dysenteriae	20	BPVF00474A
F06	stxA		Shiga toxin subunit A; RNA-N-glycosidase; catalytic subunit	Escherichia coli, Shigella dysenteriae	20	BPVF00506A
F07	Listeria monocytogenes	1639		Listeria welshimeri(1643)	200	BPID00208A
F08	Shigella dysenteriae	622		Salmonella bongori(54736)	100	BPID00307A
F09	Staphylococcus aureus	1280		Staphylococcus epidermidis(1282)	100	BPID00314A
F10	Pan Bacteria 1					BPCL00360A
F11	Pan Bacteria 3					BPCL00362A
F12	PPC					BPCL00365A
G01	Bacillus anthracis(1392) Bacillus cereus	1396		Bacillus cytotoxicus(580165), Bacillus weihenstephanensis(86662)	40	BPID00043A
G02	Bacillus sonorensis(119858) Bacillus licheniformis	1402			30	BPID00044A
G03	Klebsiella oxytoca(571) Enterobacter cloacae	550		Citrobacter farmeri(67824), Enterobacter hormaechei(158836), Klebsiella granulomatis(39824), Klebsiella variicola(244366), Enterobacter aerogenes(548), Klebsiella pneumoniae(573), Serratia marcescens(615)	100	BPID00139A
G04	eae		intimin adherence protein	Escherichia coli	30	BPVF00472A
G05	stx1B		shiga-like toxin 1 subunit B encoded within prophage CP-933V	Escherichia coli, Shigella dysenteriae	20	BPVF00474A
			Shiga toxin subunit A;			

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G06	stxA		RNA-N-glycosidase; catalytic subunit	Escherichia coli, Shigella dysenteriae	20	BPVF00506A
G07	Listeria monocytogenes	1639		Listeria welshimeri(1643)	200	BPID00208A
G08	Shigella dysenteriae	622		Salmonella bongori(54736)	100	BPID00307A
G09	Staphylococcus aureus	1280		Staphylococcus epidermidis(1282)	100	BPID00314A
G10	Pan Bacteria 1					BPCL00360A
G11	Pan Bacteria 3					BPCL00362A
G12	PPC					BPCL00365A
H01	Bacillus anthracis(1392) Bacillus cereus	1396		Bacillus cytotoxicus(580165), Bacillus weihenstephanensis(86662)	40	BPID00043A
H02	Bacillus sonorensis(119858) Bacillus licheniformis	1402			30	BPID00044A
H03	Klebsiella oxytoca(571) Enterobacter cloacae	550		Citrobacter farmeri(67824), Enterobacter hormaechei(158836), Klebsiella granulomatis(39824), Klebsiella variicola(244366), Enterobacter aerogenes(548), Klebsiella pneumoniae(573), Serratia marcescens(615)	100	BPID00139A
H04	eae		intimin adherence protein	Escherichia coli	30	BPVF00472A
H05	stx1B		shiga-like toxin 1 subunit B encoded within prophage CP-933V	Escherichia coli, Shigella dysenteriae	20	BPVF00474A
H06	stxA		Shiga toxin subunit A; RNA-N-glycosidase; catalytic subunit	Escherichia coli, Shigella dysenteriae	20	BPVF00506A
H07	Listeria monocytogenes	1639		Listeria welshimeri(1643)	200	BPID00208A
H08	Shigella dysenteriae	622		Salmonella bongori(54736)	100	BPID00307A
H09	Staphylococcus aureus	1280		Staphylococcus epidermidis(1282)	100	BPID00314A
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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