

Microbial DNA qPCR Array

Food Testing: Seafood

Cat. no. 330261 BAID-1102ZRA

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

The Seafood Testing Microbial DNA qPCR Array is a research tool used to screen for pathogenic bacteria in seafood testing studies. This array provides microbiology researchers with a convenient way to quickly detect the presence of pathogenic bacteria found in various seafood samples, allowing monitoring of the frequency of bacterial contamination. 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 Seafood 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 seafood 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	Aeromonas enteropelogenes(29489), Aeromonas punctata(648), Aeromonas media(651) Aeromonas hydrophila	644		Shewanella benthica(43661)	100	BPID00022A
A02	Bacillus anthracis(1392) Bacillus cereus	1396		Bacillus cytotoxicus(580165), Bacillus weihenstephanensis(86662)	40	BPID00043A
A03	Citrobacter freundii	546		Dickeya dadantii(204038), Klebsiella oxytoca(571), Serratia marcescens(615)	100	BPID00108A
A04	Plesiomonas shigelloides	703			30	BPID00267A
A05	Salmonella enterica	28901		Citrobacter amalonaticus(35703)	100	BPID00302A
A06	Vibrio cholerae	666			30	BPID00353A
A07	Vibrio parahaemolyticus	670		Vibrio harveyi(669),Vibrio orientalis(28175),Vibrio shilonii(62153)	40	BPID00354A
A08	Vibrio vulnificus	672			40	BPID00355A
A09	Yersinia pseudotuberculosis(633) Yersinia pestis	633		Yersinia rohdei(29485)	100	BPID00358A
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	Bacillus anthracis(1392) Bacillus cereus	1396		Bacillus cytotoxicus(580165), Bacillus weihenstephanensis(86662)	40	BPID00043A
B03	Citrobacter freundii	546		Dickeya dadantii(204038), Klebsiella oxytoca(571), Serratia marcescens(615)	100	BPID00108A
B04	Plesiomonas shigelloides	703			30	BPID00267A
B05	Salmonella enterica	28901		Citrobacter amalonaticus(35703)	100	BPID00302A
B06	Vibrio cholerae	666			30	BPID00353A
B07	Vibrio parahaemolyticus	670		Vibrio harveyi(669),Vibrio orientalis(28175),Vibrio shilonii(62153)	40	BPID00354A
B08	Vibrio vulnificus	672			40	BPID00355A
B09	Yersinia pseudotuberculosis(633) Yersinia pestis	633		Yersinia rohdei(29485)	100	BPID00358A
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	Bacillus anthracis(1392) Bacillus cereus	1396		Bacillus cytotoxicus(580165), Bacillus weihenstephanensis(86662)	40	BPID00043A
C03	Citrobacter freundii	546		Dickeya dadantii(204038), Klebsiella oxytoca(571), Serratia marcescens(615)	100	BPID00108A
C04	Plesiomonas shigelloides	703			30	BPID00267A

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 #
C05	Salmonella enterica	28901		Citrobacter amalonaticus(35703)	100	BPID00302A
C06	Vibrio cholerae	666			30	BPID00353A
C07	Vibrio parahaemolyticus	670		Vibrio harveyi(669),Vibrio orientalis(28175),Vibrio shilonii(62153)	40	BPID00354A
C08	Vibrio vulnificus	672			40	BPID00355A
C09	Yersinia pseudotuberculosis(633) Yersinia pestis	633		Yersinia rohdei(29485)	100	BPID00358A
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	Bacillus anthracis(1392) Bacillus cereus	1396		Bacillus cytotoxicus(580165), Bacillus weihenstephanensis(86662)	40	BPID00043A
D03	Citrobacter freundii	546		Dickeya dadantii(204038), Klebsiella oxytoca(571), Serratia marcescens(615)	100	BPID00108A
D04	Plesiomonas shigelloides	703			30	BPID00267A
D05	Salmonella enterica	28901		Citrobacter amalonaticus(35703)	100	BPID00302A
D06	Vibrio cholerae	666			30	BPID00353A
D07	Vibrio parahaemolyticus	670		Vibrio harveyi(669),Vibrio orientalis(28175),Vibrio shilonii(62153)	40	BPID00354A
D08	Vibrio vulnificus	672			40	BPID00355A
D09	Yersinia pseudotuberculosis(633) Yersinia pestis	633		Yersinia rohdei(29485)	100	BPID00358A
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	Bacillus anthracis(1392) Bacillus cereus	1396		Bacillus cytotoxicus(580165), Bacillus weihenstephanensis(86662)	40	BPID00043A
E03	Citrobacter freundii	546		Dickeya dadantii(204038), Klebsiella oxytoca(571), Serratia marcescens(615)	100	BPID00108A
E04	Plesiomonas shigelloides	703			30	BPID00267A
E05	Salmonella enterica	28901		Citrobacter amalonaticus(35703)	100	BPID00302A
E06	Vibrio cholerae	666			30	BPID00353A
E07	Vibrio parahaemolyticus	670		Vibrio harveyi(669),Vibrio orientalis(28175),Vibrio shilonii(62153)	40	BPID00354A
E08	Vibrio vulnificus	672			40	BPID00355A
E09	Yersinia pseudotuberculosis(633) Yersinia pestis	633		Yersinia rohdei(29485)	100	BPID00358A
E10	Pan Bacteria 1					BPCL00360A
E11	Pan Bacteria 3					BPCL00362A
E12	PPC					BPCL00365A
	Aeromonas enteropelogenes(29489), Aeromonas					

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 #
F01	punctata(648), Aeromonas media(651) Aeromonas hydrophila	644		Shewanella benthica(43661)	100	BPID00022A
F02	Bacillus anthracis(1392) Bacillus cereus	1396		Bacillus cytotoxicus(580165), Bacillus weihenstephanensis(86662)	40	BPID00043A
F03	Citrobacter freundii	546		Dickeya dadantii(204038), Klebsiella oxytoca(571), Serratia marcescens(615)	100	BPID00108A
F04	Plesiomonas shigelloides	703			30	BPID00267A
F05	Salmonella enterica	28901		Citrobacter amalonaticus(35703)	100	BPID00302A
F06	Vibrio cholerae	666			30	BPID00353A
F07	Vibrio parahaemolyticus	670		Vibrio harveyi(669),Vibrio orientalis(28175),Vibrio shilonii(62153)	40	BPID00354A
F08	Vibrio vulnificus	672			40	BPID00355A
F09	Yersinia pseudotuberculosis(633) Yersinia pestis	633		Yersinia rohdei(29485)	100	BPID00358A
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
G02	Bacillus anthracis(1392) Bacillus cereus	1396		Bacillus cytotoxicus(580165), Bacillus weihenstephanensis(86662)	40	BPID00043A
G03	Citrobacter freundii	546		Dickeya dadantii(204038), Klebsiella oxytoca(571), Serratia marcescens(615)	100	BPID00108A
G04	Plesiomonas shigelloides	703			30	BPID00267A
G05	Salmonella enterica	28901		Citrobacter amalonaticus(35703)	100	BPID00302A
G06	Vibrio cholerae	666			30	BPID00353A
G07	Vibrio parahaemolyticus	670		Vibrio harveyi(669),Vibrio orientalis(28175),Vibrio shilonii(62153)	40	BPID00354A
G08	Vibrio vulnificus	672			40	BPID00355A
G09	Yersinia pseudotuberculosis(633) Yersinia pestis	633		Yersinia rohdei(29485)	100	BPID00358A
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	Bacillus anthracis(1392) Bacillus cereus	1396		Bacillus cytotoxicus(580165), Bacillus weihenstephanensis(86662)	40	BPID00043A
H03	Citrobacter freundii	546		Dickeya dadantii(204038), Klebsiella oxytoca(571), Serratia marcescens(615)	100	BPID00108A
H04	Plesiomonas shigelloides	703			30	BPID00267A
H05	Salmonella enterica	28901		Citrobacter amalonaticus(35703)	100	BPID00302A
H06	Vibrio cholerae	666			30	BPID00353A
H07	Vibrio parahaemolyticus	670		Vibrio harveyi(669),Vibrio orientalis(28175),Vibrio	40	BPID00354A

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 #
				shilonii(62153)		
H08	Vibrio vulnificus	672			40	BPID00355A
H09	Yersinia pseudotuberculosis(633) Yersinia pestis	633		Yersinia rohdei(29485)	100	BPID00358A
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!

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