Microbial DNA qPCR Array

Bacterial Vaginosis

Cat. no. 330261 BAID-1401ZRA

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

The Bacterial Vaginosis Microbial DNA qPCR Array is a research tool used to screen for pathogenic microorganisms found in the vagina. This array provides microbiology researchers with a convenient way to quickly detect the presence or profile pathogenic microorganisms found in vaginal swabs or other samples originating from the vagina. Vaginal microbial communities play a vital role in determining urogenital health and disease in women. Bacterial vaginosis can lead to complications such as preterm delivery or increased susceptibility to STDs. The array can be used to screen for the presence of pathogenic microorganisms in research samples and for comparing microbial communities between two different populations, such as healthy women versus women diagnosed with bacterial vaginosis. The array contains assays for 42 pathogenic bacterial species as well as fungal pathogenic species from the Aspergillus and Candida genera. Assays were designed to detect bacterial 16S rRNA gene and fungal ribosomal rRNA gene sequences and use PCR amplification primers and hydrolysis-probe detection, which increases the specificity of each assay. Each Bacterial Vaginosis Microbial DNA qPCR Array plate can analyze up to two 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. Assays for human or mouse GAPDH and HBB1 are included to determine proper sample collection and can be used for normalization. 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. Free data analysis software identifies microbial species based on DCT relative to a no-template control and profiles microbial species based on a DDCT method with normalization to either bacterial load or human genomic DNA, depending on the application. The simplicity of the product format and operating procedure allow routine and reliable screening of the vaginal flora 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	Aerococcus christensenii	87541			50	BPID00019A
A02	Atopobium vaginae	82135			100	BPID00041A
A03	Bacteroides fragilis	817			20	BPID00051A
A04	Bacteroides ureolyticus	827			100	BPID00061A
A05	Campylobacter gracilis	824		Campylobacter rectus(203)	30	BPID00086A
A06	Campylobacter rectus	203		Campylobacter fetus(196)	20	BPID00088A
A07	Campylobacter showae	204			100	BPID00089A
A08	Candida albicans	5476			20	BPID00092A
A09	Candida glabrata	5478			20	BPID00093A
A10	Candida krusei	4909			50	BPID00094A
A11	Candida parapsilosis	5480			50	BPID00095A
A12	Candida tropicalis	5482			20	BPID00096A
B01	Capnocytophaga ochracea	1018			20	BPID00099A
B02	Capnocytophaga sputigena	1019			20	BPID00100A
B03	Corynebacterium aurimucosum	169292			20	BPID00121A
B04	Eggerthella sinensis	242230			30	BPID00134A
B05	Eikenella corrodens	539			100	BPID00136A
B06	Fusobacterium nucleatum	851			30	BPID00160A
B07	Gardnerella vaginalis	2702			40	BPID00163A
B08	Haemophilus influenzae	727		Haemophilus haemolyticus(726)	20	BPID00171A
B09	Leptotrichia amnionii	187101			20	BPID00204A
B10	Mobiluncus curtisii	2051			40	BPID00219A
B11	Mobiluncus mulieris	2052			100	BPID00220A
B12	Mycoplasma genitalium	2097			30	BPID00231A
C01	Mycoplasma hominis	2098			20	BPID00232A
C02	Parvimonas micra	33033			100	BPID00260A
C03	Prevotella bivia	28125			20	BPID00272A
C04	Prevotella disiens	28130			30	BPID00276A
C05	Prevotella intermedia	28131			30	BPID00277A
C06	Prevotella melaninogenica	28132			20	BPID00279A
C07	Prevotella nigrescens	28133			20	BPID00280A
C08	Pseudomonas aeruginosa	287			30	BPID00288A
C09	Selenomonas noxia	135083			20	BPID00304A
C10	Sneathia sanguinegens	40543			20	BPID00309A
C11	Streptococcus agalactiae	1311			30	BPID00320A
C12	Streptococcus intermedius(1338) Streptococcus constellatus	1338			20	BPID00323A
D01	Streptococcus mitis	28037		Streptococcus infantis(68892), Streptococcus oralis(1303), Streptococcus pneumoniae(1313), Streptococcus porcinus(1340), Streptococcus pseudopneumoniae(257758)	100	BPID00327A
D02	Treponema denticola	158			20	BPID00342A
D03	Treponema socranskii	53419			30	BPID00344A
D04	Trichomonas vaginalis	5722			50	BPID00345A
D05	Ureaplasma parvum	134821			100	BPID00347A
D06	Ureaplasma urealyticum	2130			20	BPID00348A
D07	Mm.GAPDH					BPCL00540A
D08	Mm.HBB1					BPCL00541A
D09	Pan Aspergillus/Candida	5052				BPCL00359A
D10	Pan Bacteria 1					BPCL00360A
D11	Pan Bacteria 3					BPCL00362A
D12	PPC					BPCL00365A
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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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