

WATER & ENVIRONMENTAL CONTROL

Bacterial Pathogen Real-time PCR Kit

qPCR

Multi

Single

- 20°C

Water and environmental-borne diseases are caused by pathogenic microorganisms which are directly transmitted when contaminated water and environments. Contaminated water and environments lead to many enteric disease. Therefore when water and environmental disease outbreaks, it is most important to perform laboratory-based surveillance for causative pathogens and epidemiological study as soon as possible. PowerChek™ Water and Environments Control Bacterial Pathogen Real-time PCR Kit series provide accurate and simple test that simultaneously detects pathogen within just few hours. The Real-time PCR assay have been shown to yield good detection of pathogen compared to ELISA assay and Conventional PCR assay.

Features & Benefits

Qualitative Detection & Genotyping

The assays specifically amplify target nucleic acid sequences from each bacteria pathogen present in samples

A Complete Solution Kit

- Included all reagents required to run Real-time PCR
- As fast, easy and reliable as possible

Enhanced Specificity

- Use of only highly specific primers and probes to help prevent false positives
- Exclusivity is 100 % with any of the organisms tested

Applications

- Various water & environmental samples
- Feces Sample
- Foods

Super-Fast, Simple & Easy

- Easy to use in less than 100 mins
- Minimal training or prior experience needed
- Simple steps

Prepare DNA - Run test

Open system

- Developed as a flexible, open system
- The kit can be used with different Real-time PCR instruments

Compatible Real-time PCR Instrument

- Available for the instruments with FAM, VIC(HEX), NED or ROX and Cy5 detector channel
- AB7500 Standard™, AB7500 Fast™, AB StepOne™, AB StepOnePlus™, AB7900™
- Roche LC480™
- BioRad CFX96™
- Stratagene Mx3005P™
- Qiagen RotorGene Q™ etc.

Consumer

- Government controller in water & environmental safety
- Wide range of water & environmental industry
- Catering company & retailer for quality assurance

Kit Component

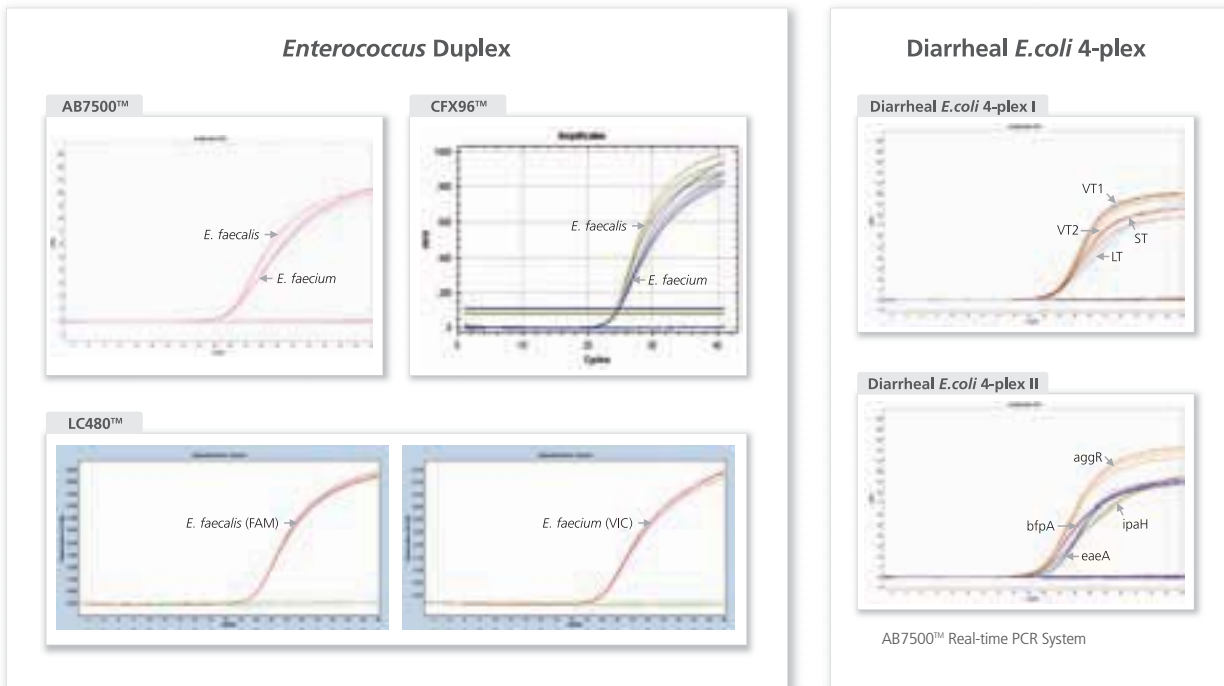
Component parts	Volume	Description
2x Real-time PCR MasterMix	200 µl	Buffer containing dNTPs, MgCl ₂ and <i>Taq</i> . DNA polymerase
Primer / Probe mixture	500 µl	Duplex primer and probe sets for Real-time PCR amplification
Control	20 µl	Positive control DNA

The kit is intended for 50 reactions. For research use only.

Detection Targets

Product	Detect target	
PowerChek™ Enterococcus Duplex Real-time PCR Kit	<i>E. faecalis</i> (ddl)	FAM
	<i>E. faecium</i> (ddl)	VIC(HEX)
	EHEC (VT1)	FAM
PowerChek™ Diarrheal E.coli 4 plex I Real-time PCR Kit	ETEC (ST)	VIC(HEX)
	EHEC (VT2)	NED or ROX
	ETEC (LT)	Cy5
PowerChek™ Diarrheal E.coli 4 plex II Real-time PCR Kit	EAEC (aggR)	FAM
	EPEC (bfpA)	VIC(HEX)
	EPEC (eaeA)	NED or ROX
	EAEC (ipaH)	Cy5
PowerChek™ Clostridium perfringens Real-time PCR Kit	■-toxin	FAM
PowerChek™ Staphylococcus aureus Real-time PCR Kit	femA	FAM
PowerChek™ Salmonella spp. Real-time PCR Kit	invA	FAM
PowerChek™ Campylobacter jejuni Real-time PCR Kit	hipO	FAM
PowerChek™ Yersinia enterocolitica Real-time PCR Kit	inv	FAM
PowerChek™ Listeria monocytogenes Real-time PCR Kit	prfA	FAM
PowerChek™ Shigella spp. Real-time PCR Kit	ipaH	FAM
PowerChek™ Vibrio parahaemolyticus Real-time PCR Kit	toxR	FAM
PowerChek™ Vibrio cholerae Real-time PCR Kit	ctx	FAM
PowerChek™ Vibrio vulnificus Real-time PCR Kit	vh	FAM
PowerChek™ Bacillus cereus Real-time PCR Kit	groEL	FAM
PowerChek™ Salmonella enteritidis Real-time PCR Kit	sefA	FAM
PowerChek™ Pseudomonas aeruginosa Real-time PCR Kit	oprL	FAM

Result



Ordering Information

Cat No.	Product	Size
R0124	PowerChek™ Enterococcus Duplex Real-time PCR Kit	50
R0131T	PowerChek™ Diarrheal E.coli 4 plex I Real-time PCR Kit	50
R0140T	PowerChek™ Diarrheal E.coli 4 plex II Real-time PCR Kit	50
R0111	PowerChek™ Clostridium perfringens Real-time PCR Kit	50
R0103	PowerChek™ Staphylococcus aureus Real-time PCR Kit	50
R0108	PowerChek™ Salmonella spp. Real-time PCR Kit	50
R0101	PowerChek™ Campylobacter jejuni Real-time PCR Kit	50
R0107	PowerChek™ Yersinia enterocolitica Real-time PCR Kit	50
R0106	PowerChek™ Listeria monocytogenes Real-time PCR Kit	50
R0109	PowerChek™ Shigella spp. Real-time PCR Kit	50
R0105	PowerChek™ Vibrio parahaemolyticus Real-time PCR Kit	50
R0110	PowerChek™ Vibrio cholerae Real-time PCR Kit	50
R0113	PowerChek™ Vibrio vulnificus Real-time PCR Kit	50
R0104	PowerChek™ Bacillus cereus Real-time PCR Kit	50
R0119	PowerChek™ Salmonella enteritidis Real-time PCR Kit	50
R0125	PowerChek™ Pseudomonas aeruginosa Real-time PCR Kit	50