

Environmental analysis

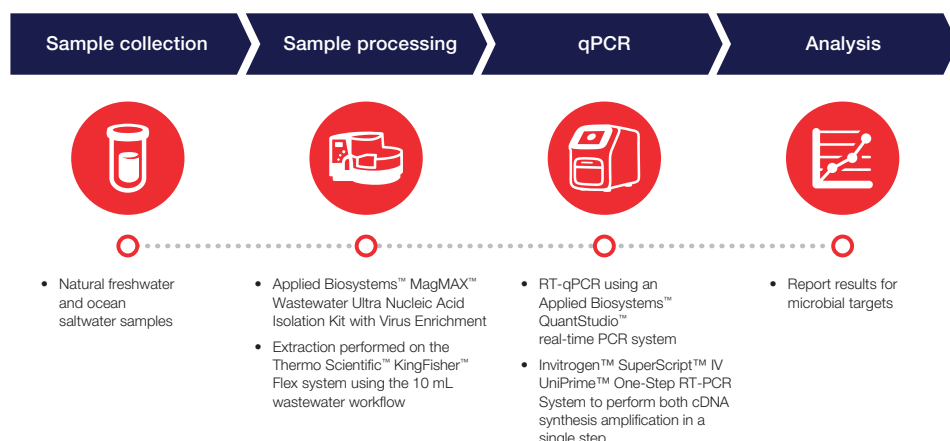
Protect your community

Advanced microbiology and viral detection in water

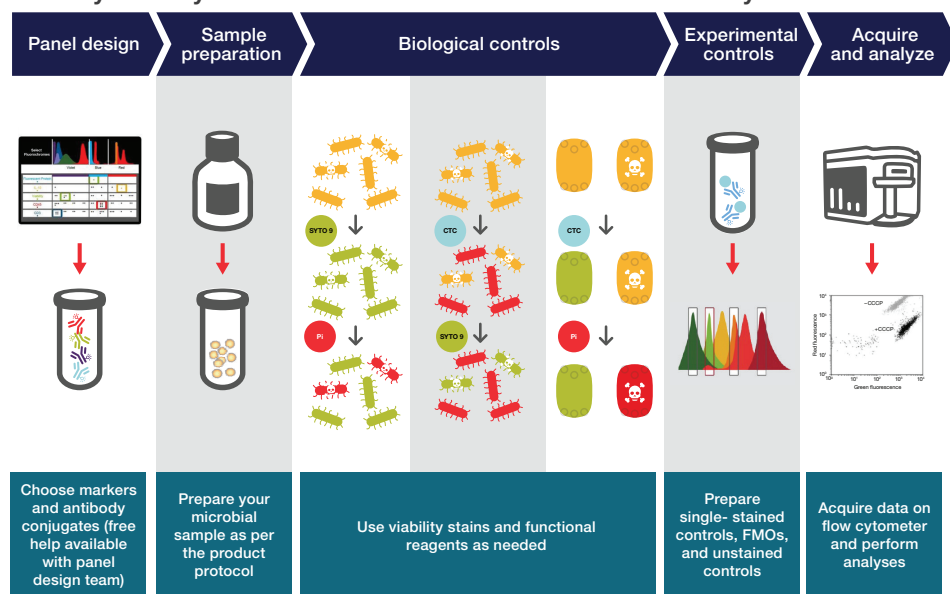
Water analysis is crucial for helping safeguard community health and enabling compliance with regulatory standards. Contaminated water can lead to serious health risks, including the spread of waterborne diseases and exposure to harmful chemicals and heavy metals. Regular analysis helps detect these threats early, enabling timely intervention and treatment to prevent adverse health effects. Our advanced molecular and flow cytometry products deliver exceptional accuracy and speed to help provide the necessary insights to protect public health.

- **Microbial safety**—identify and quantify specific DNA or RNA sequences to detect pathogens, microorganisms, and other genetic markers
- **Recreational water quality**—help ensure water is safe for recreational activities by detecting microbial indicators
- **High sensitivity**—achieve accurate detection even at low concentrations, enabling comprehensive safety assessments
- **Efficiency**—Invitrogen™ Attune™ flow cytometers can run dilute samples quickly and allow for the reliable and quantitative distinction between live and dead microorganisms, while handling samples with improved clogging resistance

Molecular viral detection workflow



Flow cytometry workflow for microbial detection and analysis



Ordering information for molecular workflow products

Description	Cat. No.
KingFisher instruments for nucleic acid isolation	Learn more at thermofisher.com/kingfisher
KingFisher Apex Purification System with 96 Deep-Well Head	5400930
KingFisher Flex Purification System with 96 Deep-well Head	5400630
MagMAX Wastewater Ultra Nucleic Acid Isolation Kit	A52606
MagMAX Wastewater Ultra Nucleic Acid Isolation Kit with Virus Enrichment	A52610
KingFisher Apex 96 combi tip comb	97002570
KingFisher 96 deep-well plate, barcoded	95040450B
KingFisher 96 deep-well plate, sterile, barcoded	95040460B
KingFisher 96 tip comb for deep-well magnet, barcoded	97002534B
KingFisher 96 deep-well plate	95040450
SuperScript IV UniPrime One-Step RT-PCR System	1259100
SuperScript IV Reverse Transcriptase	18090010
Find the right qPCR plastics	Search at thermofisher.com/findplastics
Reverse Transcriptase Selection Guide	View products
QuantiGene assays	View products
QuantiGene Plex assays (multiplex up to 80 targets using Luminex magnetic bead technology)	View products
QuantiGene Singleplex assays (like an ELISA for RNA)	View products
The Luminex multiplex platform	Learn more at thermofisher.com/luminex

Ordering information for flow cytometry detection and analysis products

Description	Cat. No.
EVOS cell imaging systems	Learn more at thermofisher.com/evos
Attune flow cytometers	Learn more at thermofisher.com/attune
Bacteria Counting Kit	B7277
LIVE/DEAD BacLight Bacterial Viability and Counting Kit	L34856
LIVE/DEAD BacLight Bacterial Viability Kit	L13152
BacLight Bacterial Membrane Potential Kit	B34950
BacLight RedoxSensor Green Vitality Kit	B34954
BacLight RedoxSensor CTC Vitality Kit	B34956
SYTO 9 Green Fluorescent Nucleic Acid Stain	S34854
pHrodo Deep Red Mammalian and Bacterial Cell Labeling Kit	P35357
pHrodo Red <i>S. aureus</i> BioParticles Conjugate for Phagocytosis	A10010
pHrodo Green <i>E. coli</i> BioParticles Conjugate for Phagocytosis	P35366
LIVE/DEAD FungaLight Yeast Viability Kit	L34952
FungaLight CFDA, AM/Propidium Iodide Vitality Kit	F34953
Bacterial viability and vitality assays for flow cytometry	Bacterial viability and vitality assays

Discover the latest advancements in water analysis. Contact your Thermo Fisher Scientific sales representative today to learn more and request a quote.

 Learn more at thermofisher.com/environmentalmicrobes

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