TECHNICAL DATA SHEET

AquaVial[™] PRO (AVP-203-1; AVP-224-2)

Product Description:

AquaVial PRO is a nanoparticle-based microbial cell wall surface recognition technology, designed to allow qualitative detection of waterborne microorganisms in treated water (drinking, swimming and industrial water).

The test uses a combination of advanced filtration techniques and functionalized gold nanoparticles to visually detect viable cells of bacteria, fungi and other unicellular microorganisms at concentrations over the set detection limit.

Detection range and capabilities

To date, AquaVial[™] PRO was tested and verified to detect the following microorganisms:

- The test is available in configurations for two detection limits:
- AquaVialTM PRO 500 --> detects bacteria levels over 500 CFU/ml
- AquaVialTM PRO 200--> detects bacteria levels over 200 CFU/ml
- Detection range

Sample volume/Co	lour	PINK	PURPLE	CLEAR
Aquavial PRO500	20 ml	<500CFU/ml	500-2,000CFU/ml	>2,000CFU/ml
Aquavial PRO200	50 ml	<200CFU/ml	200-1,000CFU/ml	>1,000CFU/ml

- Legionella pneumophila variant Lp01,
 - Salmonella enterica ATCC10708,
 - Staphylococccus aureus ATCC 6538,

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- Escherichia coli (ATCC PTA-4752)
- Bacillus megaterium (ATCC 21209),
- Pseudomonas putida (ATCC 12633),
- Baker's yeast,
- Klebsiella Pulmonae,
- Pseudomonas aeroginosa ATCC 15442
- Aspergillus Niger,
- Mycobacteria terrae,
- Candida albicans

Filter Cartridge			
-	Filter style	Syringe filter tips	
	Filter dimensions	Length: 125+/-2 mm; Tip diam: 4.7 - 5.3 mm	
	Design	Narrow housing to minimize hold-up volume and enable easy aspiration and dispensing in	
		ampoules, test tubes and other small vessels	
	Membrane	0.1µm PES holow fiber	
	Filtration surface	> 36-40 cm2	
	Inlet Style	Female Luer Lock	
Reagent Vial			
	Vial dimensions	H (cap on): 58 mm; H (cap off): 57 mm; Diam: 16 mm	
AQUAVIAL	Vial volume	5.0 ml	
	Vial material	Plastic vial, branded, with red cap, graded	
	Reagent Volume	1.0+/-0.05ml	
	Reagent type	Chemically- functionalized gold nanoparticles (antibody-free)	
	Maximum absorption wavelength	635 +/- 3 nm	
	Maximum absorption	0.4 +/- 0.05	
Saline Solution Vial			
9	Vial dimensions	H (cap on): 47 mm; H (cap off): 45 mm ; Diam: 10 mm	
	Vial volume	2.0 ml	
	Vial material	Plastic vial, with natural color cap	
	Reagent Volume	1.2+/-0.05 ml	
	Reagent type	0.1% NaCl (w/w)- sterile solution	
	Sterilization	Microfiltration+ autoclave	
Syringe			
	Volume	20 ml (for sensitivity of 500CFU/ml) & 50 ml (for sensitivity of 200 CFU.ml)	
Wat in the	Style	Luer lock	
	Туре	Single or multiple use	

Product Packaging and storage conditions

Kit content	1 filter cartridge, 1 syringe, 1 reagent vial, 1 saline solution vial
Kit package	Transparent bag
Packaging	Box of 3 Kits, Box of 24 kits
Storage conditions	Store in a cool dry place
Shelf life	2 Years from the date of manufacturing

