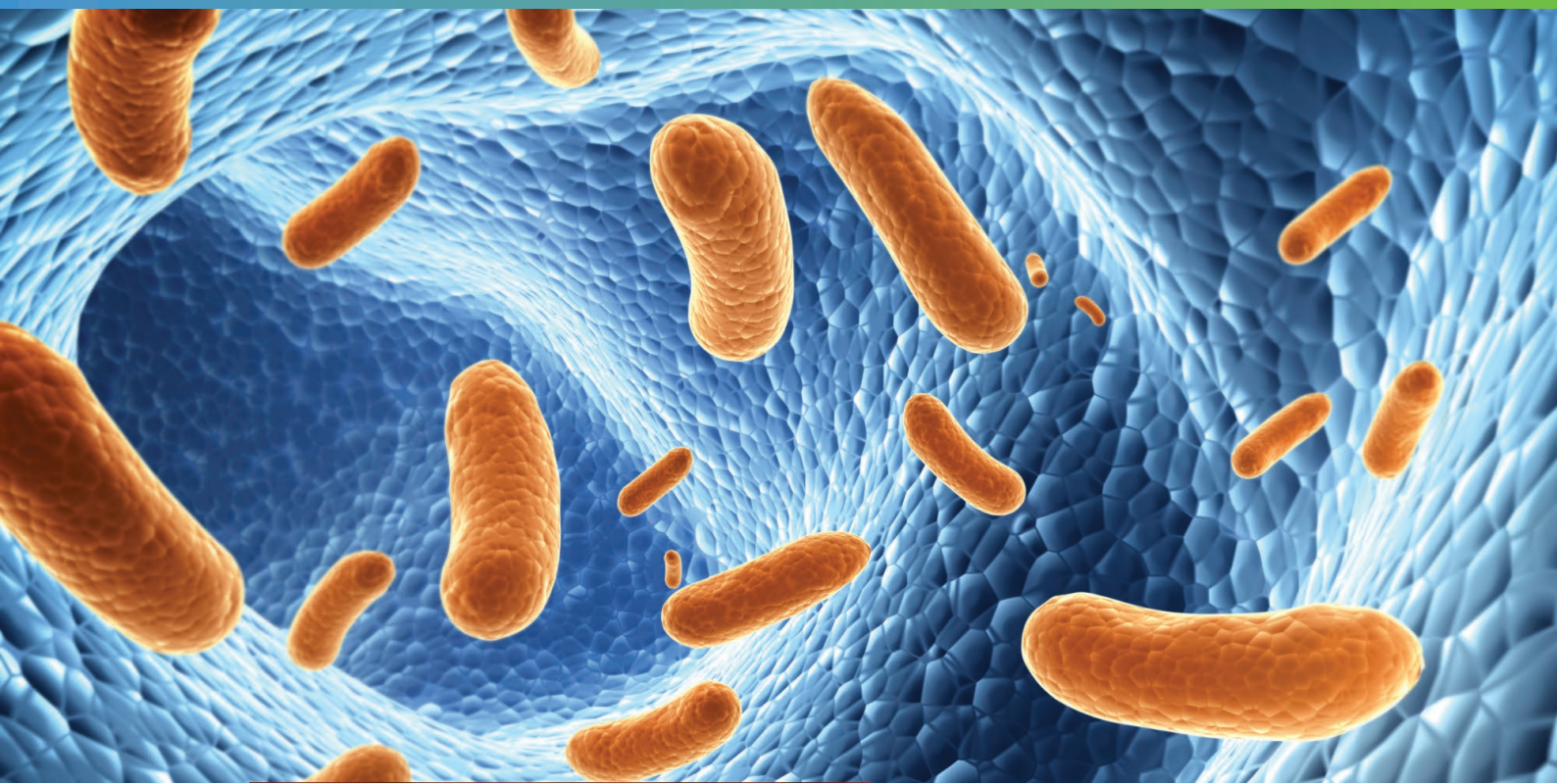


# PathoKey<sup>®</sup> MP UTI ID & AMR PCR Test

Real-Time PCR Detection of UTI Pathogens and AMR Genes



Vela Diagnostics' PathoKey MP UTI ID and AMR PCR Test for *in vitro* real-time PCR-based testing, allows laboratories to detect and differentiate Urinary Tract Infections (UTI) caused by 14 pathogens and 14 antimicrobial resistance (AMR) genes encoding resistance to 5 antibiotics.

## Providing Laboratory Efficiency

- Test up to 48 samples, plus controls, per run
- Turnaround time as low as 4 hours
- Identify 28 pathogens and AMR targets in one run
- Manual workflow also available for low throughput testing; no batching required
- Two automation workflows available to meet different laboratory throughput requirements

## Compatible With Various RT-PCR Instruments

- Sentosa<sup>®</sup> SA201 Real-Time PCR Instrument (*Sentosa SA201*)
- Applied Biosystems 7500 Fast Dx Real-Time PCR System (*ABI 7500 Fast Dx*)
- Rotor-Gene Q 5/6plex Platform
- CFX96 Real-Time PCR Detection System
- QuantStudio 5 Real-Time PCR System

## Sentosa<sup>®</sup> SA201 Reporter



Samples	Assay	Validity	Result	Well	Target	
Sample 1	MP-UTI-AMR	Sample Valid	Sample Valid	A1	sul2 and dfrA5 detected	
			Resistant to SXT, ESBL, Carbapenemase, and Methicillin	A2	CTX-M gr1 and SHV detected	
				A3	KPC, NDM and VIM detected	
				A4	OXA-48 and IMP detected	
				A5	mecA and vanA detected	
	MP-UTI-ID	Sample Valid	Sample Valid		A1	Enterococcus faecalis detected
					A2	No targets detected
					A3	Staphylococcus aureus detected
					A4	Proteus mirabilis detected
					A5	Morganella Morganii detected

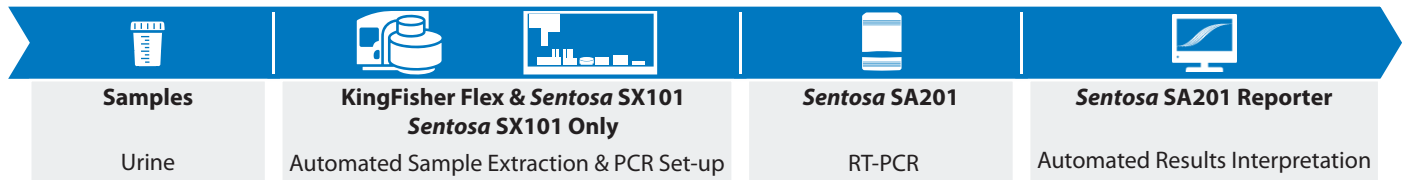
## Comprehensive Report Analysis

- When used with the *Sentosa SA201* or *ABI 7500 Fast Dx*, the *Sentosa SA201 Reporter* consolidates pathogen and AMR results for each sample for easy review by pathologists

## Manual Workflow



## Automated Workflow



## PathoKey MP UTI ID & AMR PCR Test Specifications

Specifications	PathoKey MP UTI ID PCR Test	PathoKey MP AMR ID PCR Test	
<b>Targets &amp; Analytical Sensitivity</b>	<b>Pathogens</b> <i>Acinetobacter baumannii</i> <i>Candida albicans</i> <i>Enterococcus faecalis</i> <i>Enterococcus faecium</i> <i>Escherichia coli</i> <i>Klebsiella oxytoca</i> <i>Klebsiella pneumoniae</i> <i>Morganella morganii</i> <i>Proteus mirabilis</i> <i>Pseudomonas aeruginosa</i> <i>Staphylococcus aureus</i> <i>Staphylococcus saprophyticus</i> <i>Streptococcus agalactiae</i> <i>Streptococcus pneumoniae</i>	<b>Antibiotic</b>	<b>Genes</b>
		Carbapenems	IMP KPC NDM OXA-48 VIM
		ESBL	CTX-M gr1 SHV TEM
		Methicillin	<i>mecA</i>
		SXT	<i>dfrA1</i> <i>dfrA5</i> <i>sul2</i>
		Vancomycin	<i>vanA</i> <i>vanB</i>
<b>Limit of Detection (LoD)</b>	1000 copies/mL*		
<b>Sample Volume</b>	750 µL with automated workflow		
<b>Turnaround Time</b>	As low as 4 hours with automated workflow		
<b>Hands-On Time</b>	As low as 30 minutes with automated workflow		
<b>Controls</b>	Positive Control (PC), Negative Control (NC) & Internal Control (IC)		
<b>Regulatory Status</b>	RUO		

\*For manual workflow only

## Ordering Information

Product Name	Pack Size	Item Number
PathoKey MP UTI ID PCR Test	Up to 48 tests	301099
PathoKey MP UTI AMR PCR Test	Up to 48 tests	301100
VELA® MP Fungal/Bacterial DNA Kit (48)	48 tests	301101
Sentosa SX U-Prep Kit (4)	4 tests	300836
Sentosa SX Lysis Plate Type B (10x24)/(10x48)	10x24/10x48 tests	300792/301117

RUO: For research use only. Not for use in diagnostic procedures.

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