

Maximize the flexibility of your laboratory with our diverse range of molecular solutions

We offer a broad portfolio of molecular solutions across a wide range of technologies. This helps you gain more control over your laboratory, now and into the future.

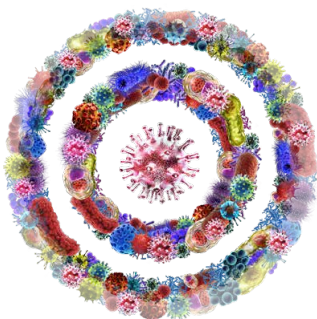
We offer both the tools and expertise to effectively expand your molecular testing menu, enabling you to get fast, accurate, and actionable results with reduced costs per test. Spanning some of the most common disease areas worldwide, our solutions are focused on pathogen detection, pharmacogenomics, and oncology.

Fast, accurate, actionable results—in molecular testing, time is of the essence. Our solutions provide actionable results, accurately and quickly.

Cost savings—realize reduced per-test costs by developing and running tests that meet the unique needs of your lab, rather than using expensive one-size-fits-all solutions.

Made-to-stock or custom solutions—our product lines offer a variety of off-the-shelf arrays that enable interrogation of carefully curated content. If you have specific targets of interest, custom arrays are available.

Maximizing flexibility—in the ever-evolving world of molecular testing, our collaborative solutions approach allows labs to adapt and meet challenges today and tomorrow.



Respiratory pathogen detection solution

Now updated with SARS-CoV-2 targets, our sensitive, syndromic panel-based real-time PCR solution features the largest number of respiratory pathogen targets of any test on the market.

Feature	Specification	
	Applied Biosystems™ OpenArray™ plate	Applied Biosystems™ TaqMan® array card
No. of wells	2,688	384
No. of targets	32 respiratory plus 3 controls (Xeno, RNase P, <i>Bacillus atrophaeus</i>) Custom panels also available	41 respiratory plus 4 controls (Xeno, 18S, RNase P, <i>Bacillus atrophaeus</i>) Custom panels also available
No. of samples	Up to 24 samples per plate (spotted in triplicate)	8 samples
Master mix volume	120 µL per OpenArray plate	420 µL per TaqMan array card
Reaction volume	33 nL	1 µL
Samples/day	Up to 288	Up to 64
Compatible instruments	Applied Biosystems™ QuantStudio™ 12K Flex Real-Time PCR System with OpenArray block	Applied Biosystems™ QuantStudio™ 7 Pro, 7 Flex, and 12 Flex systems with TaqMan array card block
Time-to-results	5 hours	5 hours
List of verified assays	thermofisher.com/respiratorypanel	

Ordering information

Product	Quantity	Cat. No.
TrueMark Respiratory Panel 2.0, OpenArray Plate	1 plate	A49044
TrueMark Respiratory Panel 2.0, TaqMan Array Card	1 card	A49047
TrueMark Respiratory Panel 2.0, PreAmp Primers	1 mL	A49049
TrueMark Respiratory Panel 2.0, Amplification Control	250 µL	A48101
TaqMan Universal RNA Spike In/Reverse Transcription (Xeno) Control	5 x 200 µL	A39179
TaqMan Universal Extraction Control Organism	Inquire	A30220



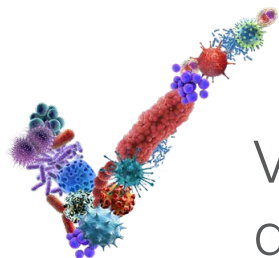
Urinary tract pathogen detection solution

Our real-time PCR urinary tract microbiota solution helps enable the rapid detection of pathogens associated with urinary tract infections in under 5 hours.

Feature	Specification	
	OpenArray plate	TaqMan array card
No. of wells	2,688	12 to 384
No. of targets	17 pathogen targets plus 2 controls (Xeno and RNase P) Early access: 31 pathogen targets, 22 antibiotic-resistance genes plus 3 controls (Xeno, RNase P, <i>Bacillus atrophaeus</i>) Custom panels also available	Available as custom only
No. of samples	Up to 48 samples per plate (spotted in triplicate)	8 samples
Master mix volume	120 µL per OpenArray plate	420 µL per TaqMan array card
Reaction volume	33 nL	1 µL
Samples/day	Up to 576	Up to 64
Compatible instruments	QuantStudio 12K Flex Real-Time PCR System with OpenArray block	QuantStudio 7 Pro, 7 Flex, and 12 Flex systems with TaqMan array card block
Time-to-results	5 hours	5 hours
List of verified assays	thermofisher.com/utm Contact your Technical Sales Specialist for early-access panel content and ordering View the complete list of assays for antibiotic resistance (ABR) genes including flexible ordering formats at thermofisher.com/abr	

Ordering information

Product	Quantity	Cat. No.
TaqMan OpenArray Urinary Tract Microbiota Comprehensive Plate V1	1 plate	A39900
TaqMan Urinary Tract Microbiota Amplification Control	5 x 50 µL	A39174
TaqMan Universal DNA Spike-In Control	1,000 µL	A39175
TaqMan Universal DNA Spike-In Control (5X)	5 x 1,000 µL	A39176
TaqMan Universal Extraction Control Organism	Inquire	A30220
TaqMan OpenArray Urinary Tract Microbiota Comprehensive Plate V2	1 plate	Inquire
TaqMan Xeno Control (with Kanamycin Vector)	Inquire	Inquire
TaqMan Universal Extraction Control Organism	Inquire	A30220
TaqMan Comprehensive Microbiota Control	1,000 µL	A50382



Vaginal microbiota detection solution

Our solution has the widest range of both commensal and pathogenic microbial targets compared to other commercially available molecular solutions.

Feature	Specification	
	OpenArray plate	TaqMan array card
No. of wells	2,688	12 to 384
No. of targets	34 pathogen targets, plus 2 controls (16S and RNase P) Early access: 28 pathogenic and commensal bacterial targets plus 3 controls (Xeno, RNase P, <i>Bacillus atrophaeus</i>)—six fewer targets removes the need for public health reporting Custom panels also available	Available as custom only; select from 34 pathogenic and commensal bacterial targets
No. of samples	Up to 24 sample per plate (spotted in triplicate)	8 samples
Master mix volume	120 µL per OpenArray plate	420 µL per TaqMan array card
Reaction volume	33 nL	1 µL
Samples/day	Up to 288	Up to 64
Compatible instruments	QuantStudio 12K Flex Real-Time PCR System with OpenArray block	QuantStudio 7 Pro, 7 Flex, and 12 Flex systems with a TaqMan array card block
Time-to-results	5 hours	5 hours
List of verified assays	thermofisher.com/vm Contact your Technical Sales Specialist for early access panel content and ordering	

Ordering information

Product	Quantity	Cat. No.
TaqMan OpenArray Vaginal Microbiota Comprehensive Plate	1 plate	A39899
TaqMan Vaginal Microbiota Amplification Control	20 µL	A32040
	250 µL	A32913
TaqMan OpenArray Vaginal Microbiota Comprehensive Plate V2	10-pack	Inquire
TaqMan Universal DNA Spike-In Control	1,000 µL	A39175
TaqMan Universal DNA Spike-In Control (5X)	5 x 1,000 µL	A39176
TaqMan Universal Extraction Control Organism	Inquire	A30220
TaqMan Custom DNA Control	1,000 µL	A50375



Pharmacogenomic solutions

Optimized for routine testing and preemptive analysis using actionable markers. We offer a variety of options for flexible, scalable, and qualified solutions.

Feature	Specification	
	OpenArray plate	TaqMan array plate
No. of wells	2,880	12 to 384
No. of targets	60 preselected Applied Biosystems™ TaqMan® PGx Assays Early access: 120 preselected TaqMan PGx Assays Custom panels also available	Available as custom only; select from >17M DME and SNP assays
No. of samples	Up to 48 and 24 samples per plate (spotted in triplicate), respectively	Up to 2 samples per plate (16 assay format)
Master mix volume	120 µL per OpenArray plate	960 µL per TaqMan array plate
Reaction volume	33 nL	5 µL
Samples/day	Up to 576	Up to 192
Compatible instruments	QuantStudio 12K Flex Real-Time PCR System with OpenArray block	QuantStudio 5, 6 Flex, 6 Pro, 7 Flex, 7 Pro, and 12 Flex systems with a 384-well block
Time-to-results	7 hours	4 hours
List of verified assays	thermofisher.com/pgx Contact your Technical Sales Specialist for early-access panel content and ordering	

Ordering information

Product	Quantity	Cat. No.
TaqMan OpenArray PGx Express 60 Panel	1 plate	4488847
TaqMan OpenArray PGx Express 120 Panel	1 plate	Inquire
TaqMan OpenArray Custom Panels	10 plates	Inquire
TaqMan Array Plates, 384-well Custom	1 plate	4462783

Molecular oncology

Leverage our comprehensive portfolio to find the right solutions for your lab's needs. With easy-to-use instruments, intuitive software, and predesigned assays, we make it simpler for you to obtain relevant oncology research results.

Applied Biosystems™ TrueMark™ MSI Assay for microsatellite instability (MSI) analysis

Easier, more comprehensive MSI testing with automated calling, optional normal controls, and a 13-microsatellite marker panel to test for MSI associated with Lynch syndrome–related cancers and to study immunotherapy. More information is available at thermofisher.com/msi.

Applied Biosystems™ OncoScan™ CNV and CNV Plus Assays for solid tumor analysis

Comprehensive and fast whole-genome CNV assays to detect chromosomal arm aberrations, focal changes, loss of heterozygosity (LOH), copy neutral LOH (cnLOH), and more from as little as 80 ng FFPE-derived DNA. More information is available at thermofisher.com/oncoscan.

Partner with us to expand your molecular testing menu at
thermofisher.com/clinicalgenomics

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