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Please contact your local representative for availability.

## UltraGene Assays

ABL Diagnostics offers one of the largest ranges of syndromically grouped real-time PCR multiplexes available — covering major disease groups like respiratory infections, gastroenteritis, sexually transmitted infections, fevers and rash, meningitis, infections of the immunosuppressed, and tropical fevers.



Infectious  
Disease  
Testing

# UltraGene Assays – Real-time PCR Assays

## Automate Your Syndromic Testing

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ABL DIAGNOSTICS Headquarters  
72c, Route de Thionville 127  
57140 WOIPPY, FRANCE  
Phone: +33 7 83 64 68 50

<https://www.abldiagnostics.com>



# UltraGene Assays

Automate and consolidate your syndromic testing

## Challenge: Consolidating viral, bacterial, fungal, and parasite testing

Infectious diseases are caused by pathogenic microorganisms, such as bacteria, viruses, parasites or fungi; the diseases can be spread, directly or indirectly, from one person to another.<sup>1</sup> As of 2019, infectious diseases account for about 1 in 4 deaths worldwide, and remain the main reason of death for children younger than age 5.<sup>2</sup>

Early diagnosis and monitoring of these infections is extremely important in the management of high-risk patients. Molecular laboratories are increasingly asked to do more with less in the face of laboratory staffing challenges, managing multiple assays on multiple platforms, and service agreements with multiple vendors. The challenge is compounded by the need for high-quality nucleic acids from a wide variety of specimens across several disease states.

## Solution: UltraGene Assays- Syndromic Real-time PCR Multiplexing Assays

ABL Diagnostics offers one of the largest ranges of syndromically grouped real-time PCR multiplex assays covering the major disease groups such as respiratory infection, gastroenteritis, sexually transmitted infections, childhood infection, meningitis, eye infection, immunosuppression, hepatitis, and tropical fever.

### Syndromic Testing

- Real-time PCR multiplex testing for infectious disease detection based on the syndromic approach
- Comprehensive diagnostic approach to a clinical syndrome
- Faster, better informed decisions while realizing time and cost efficiencies for clinicians

### Lower Costs and Greater Efficiency

- Syndromically grouped real-time PCR multiplex kits
- Time, resources, reagents, and budget savings
- Single sample and test cover probable pathogenic causes—virus, bacteria, fungi or parasite—at the same time, in one run

### Better Outcomes

- Clinically relevant testing for viral, bacterial, and other types of infections
- Improved patient outcomes with a faster clinical diagnosis
- Covers major disease groups: respiratory infections, gastroenteritis, sexually transmitted infections, fevers and rash, meningitis, eye infection, immunosuppression, hepatitis, and tropical fever

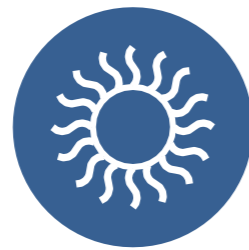
One-step syndromic real-time PCR multiplexing kits detecting simultaneously viruses, bacteria, fungi or parasites.



Respiratory Infections



Gastroenteritis



Sexually Transmitted Infections



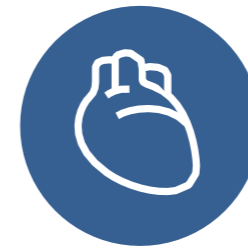
Fever, Rash, Childhood Infections



Eye Infections



Hepatitis



Infections of the Immunosuppressed



Meningitis Infections



Tropical Fever

1. World Health Organization (WHO), 2017  
2. World Health Organization (WHO), 2020



# Respiratory Infections

	Multiplex											SinglePlex				
	Respiratory pathogens 21	Respiratory pathogens 21 plus	Respiratory pathogens 33	Combo 4 Screening CE IVD	FLU	FLU/ HRSV	FLU differentiation	Atypical CAP	Bacterial pneumoniae CAP	EPA	hCoV	Bordetella	MERS-CoV	Pneumocystis jirovecii	SARS-CoV-2 PrimeChek CE IVD	SARS-CoV-2 Universalis CE IVD
Bordetella spp.			•													
Bordetella pertussis											•					
Bordetella parapertussis/ bronchiseptica/ holmesii											•					
Chlamydia pneumoniae		•	•				•	•								
Enterovirus	•	•	•						•							
Haemophilus influenzae			•					•								
Haemophilus influenzae B		•	•													
Human adenovirus	•	•	•						•							
Human bocavirus	•	•	•													
Human coronavirus 229E	•	•	•								•					
Human coronavirus HKU1	•	•	•								•					
Human coronavirus NL63	•	•	•								•					
Human coronavirus OC43	•	•	•								•					
Human coronavirus SARS-CoV-2				•											•	•
Human metapneumoviruses A/B	•	•	•													
Human parainfluenza virus 1	•	•	•													
Human parainfluenza virus 2	•	•	•													
Human parainfluenza virus 3	•	•	•													
Human parainfluenza virus 4	•	•	•													
Human parechovirus	•	•	•						•							
Human respiratory syncytial viruses A/B	•	•	•													
Human rhinovirus	•	•	•													
Influenza A virus	•	•	•	•	•	•										
Influenza A(H1N1)swl virus	•	•	•		•		•									
Influenza A(H3) virus							•									
Influenza A(H5) virus							•									
Influenza A(H7) virus							•									
Influenza B virus	•	•	•	•	•	•										
Influenza C virus			•													
Klebsiella pneumoniae			•													
Legionella pneumophila/ longbeachae			•				•	•								
MERS-CoV												•				
Moraxella catarrhalis			•					•								
Mycoplasma pneumoniae	•	•	•				•	•								
Pneumocystis jirovecii			•										•			
Respiratory Syncytial Virus				•												
Salmonella			•													
Staphylococcus aureus		•	•					•								
Streptococcus pneumoniae		•	•					•								



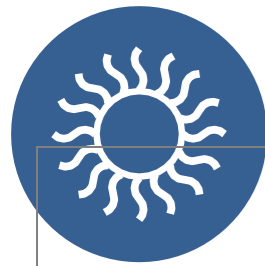
## Gastroenteritis

	Multiplex			
	Viral Gastroenteritis	Bacterial Gastroenteritis	EPA	Stool parasites
Campylobacter coli/jejuni/lari		•		
Clostridium difficile		•		
Clostridium beijerinckii				•
Clostridium butyricum				•
Clostridium neonatale				•
Cryptosporidium				•
Entamoeba histolytica				•
Enterohemorrhagic E. coli vtx+		•		
Enterovirus			•	
Giardia lamblia				•
Human adenovirus	•		•	
Human astrovirus	•			
Human parechovirus			•	
Norovirus G1	•			
Norovirus G2	•			
Rotavirus	•			
Salmonella		•		
Sapovirus	•			
Shigella		•		
Yersinia enterocolitica		•		



## Fever, Rash, Childhood Infections

	Multiplex				Simplex
	Vesicular rash	Fever and rash	EPA	Dermatophytes	Measles
Enterovirus		•	•		
Herpes simplex virus 1	•				
Herpes simplex virus 2	•				
Human adenovirus			•		
Human herpesvirus 6		•			
Human herpesvirus 7		•			
Human parechovirus			•		
Human parvovirus B19		•			
Measles virus		•			•
Microsporium audouinii/ canis/ferrugineum				•	
Trichophyton mentagrophytes complex				•	
Trichophyton rubrum complex				•	
Trichophyton tonsurans/ equinum				•	
Trichophyton violaceum				•	
Varicella zoster virus	•				



## Sexually Transmitted Infections

	Multiplex					SinglePlex	
	Urethritis basic	Urethritis plus	STD9	Genital ulcer	Gonorrhoea confirmation	MonkeyPox Screening	HPV One qPCR kit
Chlamydia trachomatis	•	•	•				
Gardnerella vaginalis			•				
Herpes simplex virus 1			•	•			
Herpes simplex virus 2			•	•			
Human papillomavirus							•
Monkeypox virus						•	
Mycoplasma genitalium	•	•	•				
Mycoplasma hominis		•					
Neisseria gonorrhoeae	•	•	•		•		
Treponema pallidum				•			
Trichomonas vaginalis		•	•				
Ureaplasma parvum		•	•				
Ureaplasma urealyticum		•	•				



## Eye Infections

	Multiplex
	Eye
Chlamydia trachomatis	•
Herpes simplex virus 1	•
Herpes simplex virus 2	•
Human adenovirus	•
Varicella zoster virus	•



## Hepatitis

	SinglePlex
	Hepatitis E RNA
Hepatitis E virus	•



## Infections of the Immunosuppressed

	MultiPlex	Singleplex
	ACE	BKV
Epstein-Barr virus	•	
Human adenovirus	•	
Human cytomegalovirus	•	
Human polyomavirus 1		•



Broad menu of real-time PCR multiplexing kits available for the rapid detection of infectious diseases



## Meningitis Infections

	MultiPlex			
	Bacterial meningitis	Neuro 9	Viral meningitis	Viral meningitis plus
Enterovirus		•	•	•
Epstein-Barr virus		•		
Haemophilus influenzae	•			
Herpes simplex virus 1		•	•	•
Herpes simplex virus 2		•	•	•
Human adenovirus		•		•
Human cytomegalovirus		•		
Human herpesvirus 6		•		
Human herpesvirus 7		•		
Human parechovirus		•	•	•
Human parvovirus B19		•		
Mumps virus			•	•
Neisseria meningitidis	•			
Streptococcus pneumoniae	•			
Varicella zoster virus		•	•	•



## Tropical Fever

	MultiPlex				
	Tropical fever core	Dengue/Chik	Zika/Dengue/Chik	Dengue differentiation	Malaria differentiation
Chikungunya virus	•	•	•		
Dengue virus	•	•	•		
Dengue virus 1				•	
Dengue virus 2				•	
Dengue virus 3				•	
Dengue virus 4				•	
Leptospira	•				
Plasmodium	•				
Plasmodium falciparum					•
Plasmodium malariae					•
Plasmodium ovale					•
Plasmodium vivax					•
Rickettsia	•				
Salmonella	•				
West Nile virus	•				
Zika virus			•		

Catalog Number	Product	Quantity (Tests/Reactions)
I1373921	UltraGene Assay ACE	32
I1374010	UltraGene Assay Atypical CAP	64
I1373947	UltraGene Assay Bacterial gastroenteritis	32
I1373967	UltraGene Assay Bacterial meningitis	32
I1373969	UltraGene Assay Bacterial pneumonia CAP	32
I1374014	UltraGene Assay BKV	64
I1373974	UltraGene Assay Bordetella	64
I1373996	UltraGene Assay Dengue / Chik	64
I1373998	UltraGene Dengue differentiation	64
I1416318	UltraGene Assay Dermatophytes	64
I1373962	UltraGene Assay EPA	64
I1373950	UltraGene Assay Eye	64
I1373941	UltraGene Assay Fever and rash	32
I1373959	UltraGene Assay FLU	32
I1374021	UltraGene Assay Flu differentiation	32
I1374003	UltraGene Assay FLU / HRSV	32
I1373956	UltraGene Assay Genital ulcer	32
I1373954	UltraGene Assay Gonorrhoea confirmation	64
I1374016	UltraGene Assay HCoV	64
I1374030	UltraGene Assay Hepatitis E RNA	64
I1373992	UltraGene Assay Malaria differentiation	64
I1374001	UltraGene Assay Measles	32
I1374006	UltraGene Assay MERS-CoV	64

Catalog Number	Product	Quantity (Tests/Reactions)
I1374019	UltraGene Assay Neuro9	32
I1373965	UltraGene Assay Pneumocystis jirovecii	32
I1373927	UltraGene Assay Respiratory pathogens 21	32
I1373923	UltraGene Assay Respiratory pathogens 21 plus	32
I1373925	UltraGene Assay Respiratory pathogens 33	32
I1416314	UltraGene Assay SARS-CoV-2	32
I1374007	UltraGene Assay STD9	32
I1373957	UltraGene Assay Stool parasites	32
I1373983	UltraGene Assay Tropical fever core	32
I1373978	UltraGene Assay Urethritis basic	64
I1373993	UltraGene Assay Urethritis plus	32
I0921714	UltraGene Assay Vesicular rash	32
I1373929	UltraGene Assay Viral gastroenteritis	32
I1373945	UltraGene Assay Viral meningitis	32
I1373946	UltraGene Assay Viral meningitis plus	32
I1374049	UltraGene Assay Zika/Dengue/Chik	32
I50B50	UltraGene Assay - Combo 4 – Screening V2	50
I50B1000	UltraGene Assay - Combo 4 – Screening V2	1000
I69B50	UltraGene Assay SARS-CoV-2 Universalis V2.x	50
I69B1000	UltraGene Assay SARS-CoV-2 Universalis V2.x	1000
I69C50	UltraGene Assay SARS-CoV-2 PrimeChek V3.x	50
I69C1000	UltraGene Assay SARS-CoV-2 PrimeChek V3.x	1000
I69C96_D	UltraGene Assay SARS-CoV-2 PrimeChek - Lyophilized Version V3.x	96
I88A50	UltraGene Assay MonkeyPox Screening V1.x	50
202A50	UltraGene Assay Clostridium Triplex V1.x	50



## Syndromically Grouped Real-time PCR Multiplex Kits

Syndromically grouped real-time PCR multiplex kits serve an important clinical need. With these multiplex kits, the physician can order a test from the lab covering probable pathogenic causes—virus, bacteria, fungi or parasite—at the same time, in one run. This can save time, resources, reagents, and money while providing a fast clinical diagnosis.



Website: [www.abldiagnostics.com](http://www.abldiagnostics.com)  
 Email: [contact@ablsa.com](mailto:contact@ablsa.com)