

NOVACYT

PRIMER
DESIGN

Primer Design™
Molecular qPCR
Multiplex Portfolio

In partnership with



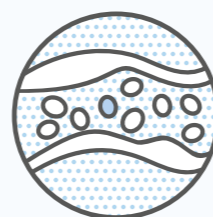
SCIENTIFIC
LABORATORY
SUPPLIES

Reduce costs associated with optimization and validation of qPCR assays by using our range of genesig™PLEX kits, that remove the time, cost and complexity of development of multiplexed kits.

Multiplex PCR is the simultaneous detection of multiple targets in a single reaction well, with a different pair of primers for each target. This technique requires two or more probes that can be distinguished from each other and detected simultaneously.

Multiplex PCR offers users the advantages of gaining more results from less sample in a more cost effective approach (uses fewer consumables). In addition, use of multiplex kits should deliver significant time savings to users setting up the testing.

Blood-borne Multiplex Assays



genesig™PLEX real-time PCR multiplex, HIV1/HIV2/HBV/HCV v2.0

Designed for the in vitro detection of Human Hepatitis Viruses B and C and Human Immunodeficiency Viruses 1 & 2.

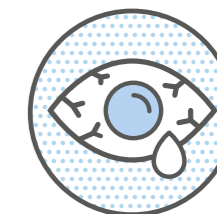
genesigPLEX qPCR Kits are unique multiplex qPCR assays that allow simultaneous real-time PCR detection of different preselected viral or bacterial targets.

Individual primers and probes have been designed permitting multiple virus detection in a single reaction through separate fluorescent channels.

Human genesigPLEX qPCR Kits also all include a human endogenous control to confirm extraction of a valid biological template.

Product Description	SLS Code	Category	Description
genesig™PLEX real-time PCR multiplex, HIV1/HIV2/HBV/HCV v2.0	PRI3502	Blood-borne Viral	100 Tests

Eye infection Multiplex Assays



genesig™PLEX Eye Infection Real-Time PCR Multiplex Kit

Detection of Adenovirus, VZV, HSV1/2 from high quality nucleic acid extracts.

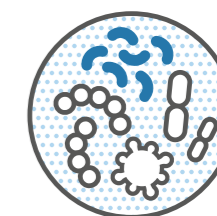
Kit will detect >95% of Adenovirus, VZV, HSV1/2 strains sequenced and uploaded to the NCBI public database at time of design.

It is not predicted to cross-react with any other viruses based on analysis of publicly available sequences.

Open platform.

Product Description	SLS Code	Category	Description
genesig™PLEX Eye Infection Real-Time PCR Multiplex Kit	PRI3504	Eye Infection	100 Tests

Gastrointestinal Multiplex Assays



genesig™PLEX Gastrointestinal Bacterial Real-Time PCR Multiplex Kit

Detection of Salmonella (Typhimurium, Enteritidis, Newport, Javiana and Heidelberg), Shigella (*S. sonnei*; subgroup D, *S. flexneri*; subgroup B, *S. boydii*; subgroup C and *S. dysenteriae*; subgroup A), Campylobacter (*C. jejuni* and *C. coli*) and *E. coli*. (Shiga Toxin 1 and Toxin 2; Enteroinvasive *E. coli* (EIEC)) from high quality nucleic acid extracts.

Kit will detect >95% of Salmonella (Typhimurium, Enteritidis, Newport, Javiana and Heidelberg),

Shigella (*S. sonnei* (subgroup D) *S. flexneri* (subgroup B), *S. boydii* (subgroup C) and *S. dysenteriae* (subgroup A)), Campylobacter (*C. jejuni* and *C. coli*) and *E. coli*. (Shiga Toxin 1 and Toxin 2; Enteroinvasive *E. coli* (EIEC)) strains sequenced and uploaded to the NCBI public database at time of design. It is not predicted to cross-react with any other viruses based on analysis of publicly available sequences.

Open platform.

Product Description	SLS Code	Category	Description
genesig™PLEX Gastrointestinal Bacterial Real-Time PCR Multiplex Kit	PRI3506	Gastrointestinal	100 Tests

genesig™PLEX Gastrointestinal Viral Real-Time PCR Multiplex Kit

Detection of Norovirus (GI & GII), Adenovirus (F40/F41) and Rotavirus A from high quality nucleic acid extracts.

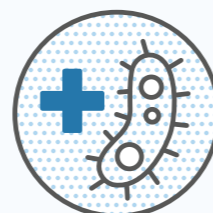
Kit will detect >95% of Norovirus (GI & GII), Adenovirus (F40/F41) and Rotavirus A strains sequenced and uploaded to the NCBI public

database at time of design. It is not predicted to cross-react with any other viruses based on analysis of publicly available sequences.

Open platform.

Product Description	SLS Code	Category	Description
genesig™PLEX Gastrointestinal Viral Real-Time PCR Multiplex Kit	PRI3508	Gastrointestinal	100 Tests

Healthcare Associated Multiplex Assays



genesig™PLEX real-time PCR multiplex kit, MRSA (MecA/FemB)

Detection of the MecA and FemB antibiotic resistance genes.

Kit designed to show 100% homology with a broad range of clinically relevant reference

sequences based on a comprehensive bioinformatics analysis.

Open platform.

Product Description	SLS Code	Category	Description
genesig™PLEX real-time PCR multiplex kit, MRSA (MecA/FemB)	PRI3510	Healthcare Associated	100 Tests

Insect Borne Multiplex Assays



genesig™PLEX Insect Borne Real-Time PCR Multiplex Kit

Detection of Dengue, Chikungunya, West Nile and Zika viruses from high quality nucleic acid extracts.

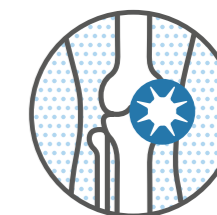
Kit will detect >95% of Dengue, Chikungunya, West Nile and Zika virus strains sequenced and uploaded to the NCBI public database at time

of design. It is not predicted to cross-react with any other viruses based on analysis of publicly available sequences.

Open platform.

Product Description	SLS Code	Category	Description
genesig™PLEX Insect Borne Real-Time PCR Multiplex Kit	PRI3512	Insect Borne	100 Tests

Joint Infection Multiplex Assays



genesig™PLEX Joint Infection Real-Time PCR Multiplex Kit

Detection of *S. aureus*, Propionibacterium from high quality nucleic acid extracts.

Kit will detect >95% of *S. aureus*, Propionibacterium strains sequenced and uploaded to the NCBI public database at time

of design. It is not predicted to cross-react with any other viruses based on analysis of publicly available sequences.

Open platform.

Product Description	SLS Code	Category	Description
genesig™ Joint Infection Real-Time PCR Multiplex Kit	PRI3514	Joint Infection	100 Tests

Meningitis Multiplex Assays



genesig™PLEX Bacterial Meningitis Real-Time PCR Multiplex Kit

Detection of *N. meningitidis*, *S. pneumoniae*, *H. influenzae* from high quality nucleic acid extracts.

Kit will detect >95% of *N. meningitidis*, *S. pneumoniae*, *H. influenzae* strains sequenced and uploaded to the NCBI public database at

time of design. It is not predicted to cross-react with any other viruses based on analysis of publicly available sequences.

Open platform.

Product Description	SLS Code	Category	Description
genesig™PLEX Bacterial Meningitis Real-Time PCR Multiplex Kit	PRI3516	Meningitis	100 Tests

genesig™PLEX Viral Meningitis Real-Time PCR Multiplex Kit

Detection of Enterovirus, VZV, HSV1/2 from high quality nucleic acid extracts.

Kit will detect >95% of Enterovirus, VZV, HSV1/2 strains sequenced and uploaded to the NCBI public database at time of design.

It is not predicted to cross-react with any other viruses based on analysis of publicly available sequences.

Open platform.

Product Description	SLS Code	Category	Description
genesig™PLEX Viral Meningitis Real-Time PCR Multiplex Kit	PRI3518	Meningitis	100 Tests

Respiratory Multiplex Assays



genesig™PLEX Atypical Pneumonia Real-Time PCR Multiplex Kit

Detection of Bordetella, Legionella, Mycoplasma, Pneumocystis, Chlamydomphila from high quality nucleic acid extracts.

Kit will detect >95% of Bordetella, Legionella, Mycoplasma, Pneumocystis, Chlamydomphila strains sequenced and uploaded to the NCBI

public database at time of design. It is not predicted to cross-react with any other viruses/bacteria based on analysis of publicly available sequences.

Open platform.

Product Description	SLS Code	Category	Description
genesig™PLEX Atypical Pneumonia Real-Time PCR Multiplex Kit	PRI3520	Respiratory	100 Tests

genesig™PLEX Respiratory Virus Real-Time PCR Multiplex Kit II

Detection of parainfluenza, rhinovirus, adenovirus and human metapneumovirus from high quality nucleic acid extracts.

Kit will detect >95% of parainfluenza, rhinovirus, adenovirus (types 3, 7, 21 as a minimum) and human metapneumovirus strains sequenced

and uploaded to the NCBI public database at time of design. It is not predicted to cross-react with any other viruses based on analysis of publicly available sequences.

Open platform.

Product Description	SLS Code	Category	Description
genesig™PLEX Respiratory Virus Real-Time PCR Multiplex Kit II	PRI3522	Respiratory	100 Tests

genesig™ WinterPLEX Real-Time PCR Multiplex Kit

Detection of winter viruses including SARS-CoV-2, FLU A, Flu B & RSV.

Flu A, 20 copies/reaction for Flu B and 3 copies/reaction for RSV.

With a limit-of-detection of 3 copies/reaction for

Open platform.

Product Description	SLS Code	Category	Description
genesig™ WinterPLEX Real-Time PCR Multiplex Kit	PRI3524	Respiratory	100 Tests

Sexually Transmitted (STIs) Multiplex Assays



genesig™ PLEX real-time PCR multiplex detection kit, CT/NG

Detection of Chlamydia trachomatis and Neisseria gonorrhoeae.

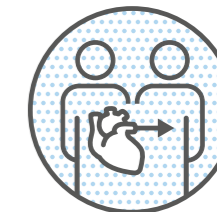
sequences based on a comprehensive bioinformatics analysis.

Kit designed to have 100% homology with a broad range of clinically relevant reference

Open platform.

Product Description	SLS Code	Category	Description
genesig™ PLEX real-time PCR multiplex detection kit, CT/NG	PRI3526	Sexually Transmitted (STIs)	100 Tests

Transplant Multiplex Assays



genesig™ PLEX real-time PCR multiplex kit, EBV/CMV/BKV-v2.0

Detection of Cytomegalovirus, Epstein-Barr virus and Polyomavirus BK.

genesigPLEX qPCR Kit for CMV/EBV/BKV maintains analytical sensitivity in the presence of co-infections.

Primers and probe sequences in this kit have 100% homology with a broad range of clinically relevant reference sequences based on a comprehensive bioinformatics analysis.

Open platform.

Product Description	SLS Code	Category	Description
genesig™ PLEX real-time PCR multiplex kit, EBV/CMV/BKV-v2.0	PRI3528	Transplant	100 Tests

MyGo® qPCR Instruments

MyGo Pro and **MyGo Pro ESR** qPCR instruments are multiplex real-time PCR instruments ideal for a wide variety of applications including life-science research, food speciation testing and viral determination and quantification.

Novel Full Spectrum Optics deliver 120 optical channels of fluorescence data from every tube in parallel, with no moving parts, for reliable multiplex PCR. High performance Peltier elements, and solid silver blocks, provide both speed and world leading thermal uniformity. The result is rapid, precise, quantitative PCR and melting point analysis.

Performance made easy...

MyGo Pro ESR

- Multiplexing capability with red spectrum dyes
- Advanced algorithms
- Intuitive user interface
- Broad range of applications, operating systems and connecting options

Software

Reliable, easy to use MyGo Pro software (v3.5.21) supports a full range of analyses.

- Mac OXS
- Window
- Cross-platform



The **MyGo Mini** is the world's most compact real-time PCR instrument, with no moving parts for silent operation and maximum reliability. It provide users with great results over a broad range of applications.

Personal precision ...

MyGo Mini S

- Incredibly easy to use
- Small footprint
- Silent operation
- Available in a choice of colours
- Can operate remotely from 12v socket

Software

Reliable, easy to use MyGo Mini software (v3.5.6) supports a full range of analyses.

- Mac OXS
- Window
- Cross-platform



SLS Code	Product Description	Wells	Category
PCR3200	MyGo Mini S qPCR Instrument - Blue	16	qPCR instrument
PCR3202	MyGo Mini S qPCR Instrument - Green	16	qPCR instrument
PCR3204	MyGo Mini S qPCR Instrument - Orange	16	qPCR instrument
PCR3206	MyGo Mini S qPCR Instrument - Pink	16	qPCR instrument
PCR3208	MyGo Mini S qPCR Instrument - Red	16	qPCR instrument
PCR3212	MyGo Pro ESR qPCR Instrument	32	qPCR instrument

SLS Code	Product Description	Category
PRI3502	genesig TM PLEX real-time PCR multiplex, HIV1/HIV2/HBV/HCV v2.0	Blood-borne Viral
PRI3504	genesig TM PLEX Eye Infection Real-Time PCR Multiplex Kit	Eye Infection
PRI3506	genesig TM PLEX Gastrointestinal Bacterial Real-Time PCR Multiplex Kit	Gastrointestinal
PRI3508	genesig TM PLEX Gastrointestinal Viral Real-Time PCR Multiplex Kit	Gastrointestinal
PRI3510	genesig TM PLEX real-time PCR multiplex kit, MRSA (MecA/FemB)	Healthcare associated
PRI3512	genesig TM PLEX Insect Borne Real-Time PCR Multiplex Kit	Insect borne
PRI3514	genesig TM Joint Infection Real-Time PCR Multiplex Kit	Joint Infection
PRI3516	genesig TM PLEX Bacterial Meningitis Real-Time PCR Multiplex Kit	Meningitis
PRI3518	genesig TM PLEX Viral Meningitis Real-Time PCR Multiplex Kit.	Meningitis
PRI3520	genesig TM PLEX Atypical Pnuemonia Real-Time PCR Multiplex Kit	Respiratory
PRI3522	genesig TM PLEX Respiratory Virus Real-Time PCR Multiplex Kit II	Respiratory
PRI3524	genesig TM WinterPLEX Real-Time PCR Multiplex Kit	Respiratory
PRI3526	genesig TM PLEX real-time PCR multiplex detection kit, CT/NG	Sexually transmitted (STIs)
PRI3528	genesig TM PLEX real-time PCR multiplex kit, EBV/CMV/BKV-v2.0	Transplant

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PRIMER DESIGN

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