



EasyScreen™ Respiratory Detection Range

Automated solutions for syndromic testing of over 20 respiratory pathogens using Genetic Signatures' 3base™ multiplex technology

Overview

- Syndromic testing solutions for clinically relevant respiratory pathogens, including the novel SARS-CoV-2 variants and other seasonal coronaviruses
- Flexibility with universal extraction process regardless of sample type and multi-batch capability for sample processing
- Automated extraction and PCR setup for both high and medium throughput workflows on Genetic Signatures' automated platforms
- Compatible respiratory sample types include nasopharyngeal aspirate, bronchial lavage, dry respiratory swabs, respiratory swabs in UTM, PBS, VTM, or ESwab/Amies



3base[™]Technology

Our $3base^{TM}$ technology enables the naturally occurring 4 base genome to be converted to one with 3 bases, changing C to T, and offers many advantages for multiplex real-time PCR

3base™ Mechanism



- Significantly improved sequence similarity of sub-species provides increased immunity to genetic variants, enabling screening of potential variants in a sample
- $\bullet \ \ \text{Improved conditions for multiplex PCR in which primers and probes work optimally at similar temperatures}\\$

EasyScreen[™] Respiratory Detection Kits

Product #	EasyScreen™ Detection Kit	Targets	IVD Status
RP003*	Coronavirus Detection Kit	Coronavirus HKU-1 Coronavirus OC43 Coronavirus NL63/229E	Research Use Only
RP007	Respiratory Pathogen Detection Kit	Influenza A Rhinovirus	TGA CE-IVD
		Influenza B Respiratory syncytial virus- A/B Human Metapneumovirus	
		Parainfluenza 1/3 Enterovirus Parainfluenza 2	
		Bordetella pertussis/ Bordetella parapertussis Mycoplasma pneumoniae Adenovirus	
RP009	Atypical Respiratory Pathogen Detection Kit	Chlamydia pneumoniae# Streptococcus pneumoniae# Legionella pneumophila#	CE-IVD [#] Research Use Only*
		Haemophilus influenzae* Bocavirus*	
		Bordetella pertussis/ Bordetella holmseii* Bordetella holmseii* Bordetella parapertussis*	
RP012	SARS-CoV-2 Detection Kit	N-gene M-gene	TGA CE-IVD
RP014	SARS-CoV-2 Respiratory Plus Detection Kit	Influenza A Rhinovirus	CE-IVD
		Influenza B Respiratory syncytial virus- A/B Human Metapneumovirus	
		SARS-CoV-2	
RP015*	SARS-CoV-2 Variant Detection Kit	Contact us for more information on available assays	Research Use Only

^{*} For Research Use Only (RUO) and not for In Vitro Diagnostic (IVD) use

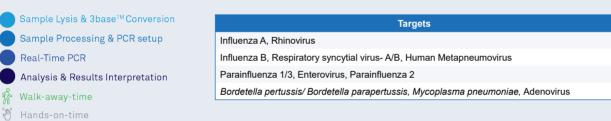
Workflow Solutions



EasyScreen™ Respiratory Pathogen Detection Kit, RP007

Workflow on the GS1-HT



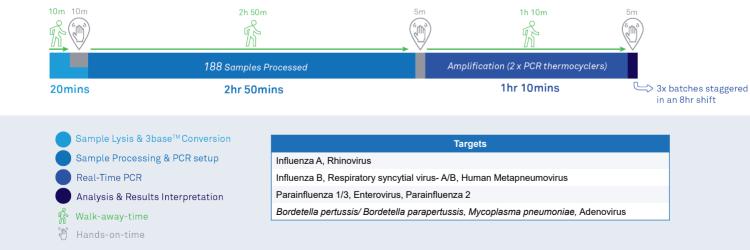


Time to first result: 3hr 55mins

In an 8hr shift: 4 batches started = 376 samples + 3hr 30mins walk-away-time/batch

EasyScreen™ Respiratory Pathogen Detection Kit, RP007

Workflow on the GS-1000



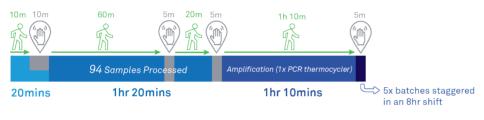
Time to first result: 4hr 30mins

In an 8hr shift: 3 batches started = 564 samples + 4hr 10mins walk-away-time/batch



EasyScreen™ SARS-CoV-2 Detection Kit, RP012

Workflow on the GS1-HT



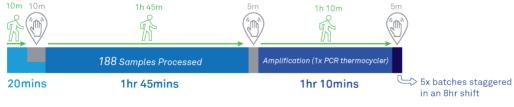


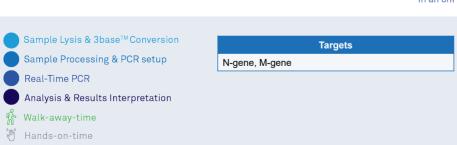
Time to first result: 3hr 5min

In an 8hr shift: 5 batches started = 470 samples + 2hr 40mins walk-away-time/batch

EasyScreen™ SARS-CoV-2 Detection Kit, RP012

Workflow on the GS-1000





Time to first result: 3hr 25mins

In an 8hr shift: 5 batches started = 940 samples + 3hr 5mins walk-away-time/batch

Automated Instruments

Our automated instruments are compatible with the full range of $EasyScreen^{TM}$ Detection Kits, allowing pathology services to screen for an array of syndromic conditions.

EasyScreen™ Detection Kits are compatible with most common thermocycler systems including the BioRad CFX384™ and Applied Biosystems QuantStudio™ 5 96-well and 384-well systems. This can provide additional flexibility and reduced capital outlay with the implementation of our workflow solutions.

Our instruments provide flexibility to perform testing with all *EasyScreen*™ kits such as Respiratory, Enterics and STIs on a common platform, which simplifies the laboratory workflow while meeting the demand for high-throughput molecular testing for these disease areas¹.

GS1-HT



GS-1000



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Scan the QR code to contact us for more information on our products or for any other enquiries.

Publications

1. Bell Potter Securities Estimates (Initiation of Coverage Report) and World Market for Molecular Diagnostics, 5th. Edition (Infectious Disease, Oncology, Blood Screening, Pre-Natal and Other Areas), Kalorama Information, Published: 1/9/2013.



Genetic Signatures

Transforming

Molecular Diagnostics

GSL-BRO-003 v2