

# MINI CATALOGUE COVID-19



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# Daftar Isi

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# **Real-Time Instrumentation**

## Real-Time PCR

### Rotor-Gene Q (No. AKL 20304122816)

The unique centrifugal rotary design of the Rotor-Gene Q makes it the most precise and versatile real-time PCR cycler currently available. Each tube spins in a chamber of moving air, keeping all samples at precisely the same temperature during rapid thermal cycling. Detection is similarly uniform. When each tube aligns with the detection optics, the sample is illuminated and the fluorescent signal is rapidly collected from a single, short optical pathway. This thermal and optical uniformity results in sensitive, precise, and fast real-time PCR analysis. It also eliminates sample-to-sample variations and edge effects. These are unavoidable in traditional block-based instruments due to temperature gradients across the block and multiple, complex optical pathways.

#### The rotary design delivers:

- Well-to-well variation below  $\pm 0.02^{\circ}\text{C}$
- Uniform detection eliminating the need for ROX reference dye
- Fast ramping and negligible equilibration times for short run times
- Complete confidence in your results!



Whether your assay is based on intercalating dyes such as SYBR Green, probes such as hydrolysis (TaqMan) or hybridization (FRET) probes, or multiplex chemistries, the Rotor-Gene Q meets your requirements. With up to 6 channels spanning UV to infrared wavelengths, the cycler delivers the widest optical range currently available (see Table "Channels for optical detection"). In addition, the software allows you to create new excitation/detection wavelength combinations, which means that the Rotor-Gene Q is compatible with dyes you may use in the future.

Expand your research with HRM. High-resolution melting analysis (HRM) is a closed-tube, post-PCR analysis that has raised enormous scientific interest. HRM characterizes double-stranded PCR products based on their dissociation (melting) behavior. It is similar to classical melting curve analysis, but provides far more information for a wider range of applications. PCR products can be discriminated according to sequence, length, GC content, or strand complementarity, down to single base-pair changes. Previously unknown and even complex sequence variations can be readily detected and characterized in a robust and straightforward way. The rotary design of the Rotor-Gene Q and its outstanding thermal and optical performance are highly suited to HRM.

#### Ordering Information

Cat. No.	Product	Content
9001710	Real Time Cycler Rotor-Gene Q 5plex HRM System	RGQ 5plex RT PCR Cycler & HRM Instrument with 5 channels (green, yellow, HRM orange, red, crimson) plus HRM channel, laptop computer, software, accessories, 1 year warranty on parts and labor, optional installation and training
9001700	Real Time Cycler Rotor-Gene Q 5plex System	RGQ 5plex RT PCR Cycler with 5 channels (green, yellow, orange, red, crimson), laptop computer, software, accessories, 1 year warranty on parts and labor, optional installation and training
9001690	Rotor-Gene Q 2plex HRM Real Time PCR System	RT PCR Cycler with 2 channels (green, yellow), , laptop computer, software, accessories, 1 year warranty on parts and labor, optional installation and training

## Real-Time PCR

### QIAquant



The QIAquant qPCR instruments deliver on the fundamental expectation to combine high performance optical detection of qPCR products with a high-performance thermal block. The result is an all-round versatile system for quantitative PCR applications such as gene expression analyses, genotyping and the detection of pathogens.

- Fast cycling time, down to under 30 minutes
- Reliable results even in challenging applications
- Compatible reactions in 96- and 384-well plates
- For both SYBR Green and probe base assays, up to 5 plex

#### The QIAquant is an all-round system designed for performance

The QIAquant qPCR instruments deliver on the fundamental expectation to combine high performance optical detection of qPCR products with a high-performance thermal block. The result is an all-round versatile system for quantitative PCR applications such as gene expression analyses, genotyping and the detection of pathogens.

The QIAquant comes in 3 configurations to match different requirements of multiplexing capacity, throughput and budget.

#### Multiplex PCR for co-detection of up to 5 different targets

The QIAquant instruments come with up to 5 color channels for multiplexing in real-time PCR applications. The QIAquant Software comes with built-in optimized generic cross-talk compensation. Users can create customized color compensation files for specific set of dyes if necessary.

Cat. No.	Product	Content
9003001	QIAquant 96 2plex (230V)	High performance real-time PCR thermal cycler with 2plex detection system, 96-well block, software, and touchscreen interface. 230V power specification
9003011	QIAquant 96 5plex (230V)	High performance real-time PCR thermal cycler with 5plex detection system, 96-well block, software, and touchscreen interface. 230V power specification
9003021	QIAquant 384 5plex (230V)	High performance real-time PCR thermal cycler with 5plex detection system, 384-well block and software. 230V power specification
209001	qPCR 384-well plate white, skirted (10)	384-well qPCR plate, white, skirted (10)
209002	qPCR 96-well plate white, skirted (10)	96-well qPCR plate, white, skirted (10)
209003	qPCR adhesive plate foil (100)	Adhesive foils for qPCR plates (100)

# **Real-Time Detection Kit**

## X-ABT Multiple Real-Time PCR Kit for Detection of 2019-nCoV (No. AKL. 20303027949)



xABT Multiple Real-Time PCR Kit for Detection of 2019-nCoV is a Real-Time RT-PCR test intended for the qualitative detection of nucleic acid from the 2019-nCoV in oropharyngeal swabs, nasopharyngeal swabs, and sputum from individuals with signs and symptoms of infection who are suspected of COVID-19. Coronaviruses (CoV) are a large family of viruses that cause illnesses ranging from the common cold

to more severe diseases such as Middle East Respiratory Syndrome (MERS-CoV) and Severe Acute Respiratory Syndrome (SARS-CoV). A novel coronavirus (nCoV) is a new strain that has not been previously identified in humans. On January 12th, 2020, WHO officially announced that the novel coronavirus causing the Wuhan pneumonia epidemic was named “2019-nCoV”, Currently it’s called COVID-19.

This kit shall only be used for IVD emergency capacity for 2019-nCoV and auxiliary diagnosis of related cases with Novel Coronavirus infections, which can’t be used as a routine IVD in the clinic.

Target	Reporter
<i>1<sup>st</sup> tube</i>	
Orf1ab	FAM
N gene	VIC
IC	CY5
<i>2<sup>nd</sup> tube</i>	
IC	JOE, Texas Red
**	VIC, Cal Fluor Red 610

Parameter	Specifications
Limit of Detection	200 copies/mL
Cross-Reactivity	There is no cross-reaction with other pathogens (Endemic human coronavirus (HKU1, OC43, NL63 and 229E), SARS-CoV, MERSr-CoV; H1N1 (new H1N1 influenza virus (2009), seasonal H1N1 influenza virus), H3N2, H5N1, H7N9, influenza B (Yamagata, Victoria), respiratory syncytial virus A and B, parainfluenza virus (type 1, 2, 3), rhinovirus (type A, B, C), adenovirus (Type 1, 2, 3, 4, 5, 7, 55), enterovirus (type A, B, C, D), hMPV, EBV, measles virus, CMV, rotavirus, norovirus, mumps virus, varicella zoster virus

Cat. No.	Product	Content
CT8223-48T	Multiple Real-Time PCR Kit for Detection of 2019-nCoV	(48 Tests/kit)
A7793YF-50T	Multiple Real-Time PCR Kit for Detection of 2019-nCoV	(50 Tests/kit)

# **Extraction (Instrument)**

# Extraction

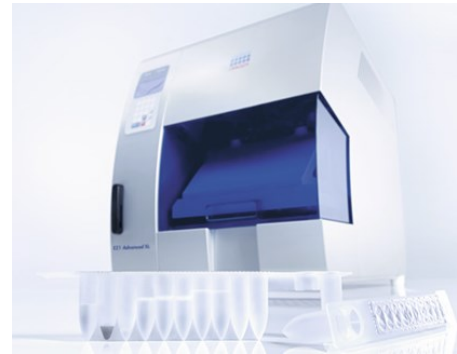
## EZ1 & EZ2

### EZ1 Advanced XL

The EZ1 Advanced XL performs automated nucleic acid purification for a wide range of sample types relevant for molecular diagnostics, human identity testing, forensics, biomedical research, and gene expression analysis.

#### Features

- High-quality genomic DNA and RNA from a range of sample materials
- Viral RNA/DNA and bacterial DNA from biomedical samples
- Throughput of up to 14 samples per run
- Effortless data management with full traceability
- UV lamp to help minimize contamination risk



### EZ2 Connect

The EZ2 Connect automates its prefilled cartridge-based workflows to process up to 24 samples at the same time. This benchtop instrument automatically pierces the sealed cartridges, heats samples for incubation, and automates pipetting of beads, buffers, even enzymes, to automate many pretreatment steps that were previously not automatable. Its intuitive touchscreen interface makes it easy to use, even for new lab workers. And with its remote connectivity feature, you can monitor your runs and manage your instrument even from outside the lab.

No matter what sample type you need to work with – whether FFPE samples, liquid biopsy samples, trace samples, cells, tissue, whole blood or other sample types – you can get an EZ2 Connect Kit that is run with preprogrammed protocols. Meet your research lab’s need for throughput, reproducibility and flexibility with EZ2 Connect.

#### Features

- Purify DNA and RNA from as many as 24 samples at the same time
- Boost reproducibility and convenience with prefilled reagent cartridges
- Cut down pretreatment efforts with on-board heating and reagent pipetting
- Achieve high sensitivity with large-volume (8 ml) processing
- Stay productive even outside the lab with QIASphere connectivity

Cat. No.	Product	Content
9001875	EZ1 Advanced XL	
9003210	EZ2 Connect	Benchtop instrument for automated isolation of nucleic acids from up to 24 samples in parallel, using sealed prefilled cartridges; includes 1-year

# Extraction

## QIAcube Connect, QIAcube HT, QIAgility

### QIAcube Connect



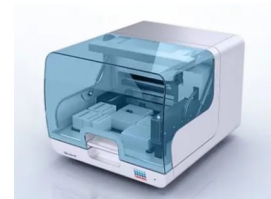
The QIAcube is a fully automated sample prep using proven QIAGEN® spin-column kits, which can process up to 12 samples per run. QIAcube is a complete automated solution for low-throughput sample prep and all steps fully automated, including sample lysis.

Purify DNA from whole blood, buffy coat, lymphocytes, bone marrow, dried blood, tissues, bone, paraffin-embedded tissues, saliva, cultured cells, buccal swabs, stool, food, yeast, bacteria, fungi, plant, many kinds of forensic sample, etc.

- Purify viral nucleic acid from serum or plasma
- Purify RNA from cells, tissues, fiber rich tissue, fatty tissue, FFPE tissue section, plant, fungi, and also automate RNA clean-up from enzymatic reaction
- Purify viral RNA from serum or plasma
- Purify molecular biology grade Plasmid DNA
- Automate DNA clean up from PCR product, Gels or Enzymatic reaction
- Purify 6xHis-tagged proteins, isolate glycoproteins and separate IgG and albumin from blood

### QIAcube HT

Instrument for automated mid- to high-throughput nucleic acid purification in 96-well format



- Reliable DNA, RNA, and miRNA extraction from virtually any sample type
- Mid- to high-throughput solution with dedicated purification kits saves costs and time
- User-friendly software allows for easy data management and documentation
- Innovative design features increase safety and minimize cross-contamination
- Convenient, flexible, and easy-to-use instrument with small footprint

QIAcube HT enables automated mid- to high-throughput nucleic acid purification in 96-well format using silica membrane technology. Users can quickly and easily purify DNA, RNA, and miRNA from almost any type of sample — including cells, tissues, and food material, as well as from bacteria and viruses in animal samples. Automated protocols and dedicated QIAcube HT purification kits and plasticware increase reliability and convenience and save valuable time. The system provides the same high-quality results as other trusted QIAGEN purification technologies.



### QIAgility

The QIAgility uses a single-channel pipet to automate PCR setup up to 96 PCR reactions can be set up in approximately 30 minutes. Liquid-level sensing, facilitated by conductive filtered tips, enables high-precision pipetting. Automated PCR setup is rapid and reliable and eliminates manual pipetting steps that can be prone to human error. The QIAgility fully automates trusted QIAGEN PCR and RT-PCR, and real-time PCR and RT-PCR kits. The QIAgility can set up multiple master mixes and can process multiple PCR setups in parallel.

Cat. No.	Product	Content
9002832	QIAcube Connect – Automated Spin Column Extraction & Purification System	Instrument, connectivity package, 1-year warranty on parts and labor
9001794	QIAcube HT	Instrument for automated mid-to-high throughput nucleic acid purification
9001731	QIAgility System HEPA / UV Robotic Workstation for Automated PCR Setup	Robotic workstation with UV lamp, HEPA filter, laptop, QIAcube HT operating software, start-up pack, installation and training, 1-year warranty on parts and labor

### QIAcube HT Consumables

Cat. No.	Product	Content
950067	QIAcube HT Plasticware	Plasticware for 480 typical preps on QIAcube HT: 5 S-Blocks, 5 Elution Microtubes RS (EMTR), 120 x 8-Well Strip Caps for EMTR, 9 x 96 Filter-Tips OnCor C, TapePad

# Extraction (Kits)

# Extraction Manual

## QIAamp Viral RNA Mini Kit



QIAamp Viral RNA Kits simplify viral RNA purification from cell-free body fluids with fast spin-column, vacuum and plate centrifugation procedures. Viral RNA binds specifically to the QIAamp silica membrane, and pure viral RNA is eluted in either water or a buffer provided with the kit. Purification can be fully automated on the QIAcube Connect using the QIAamp Viral RNA Mini Kit or dedicated QIAamp Viral RNA Mini QIAcube Kit. Various options for automation of the QIAamp 96 Viral Kit on instruments including the QIAcube HT, the Fluent 780 from Tecan or the epMotion 5075V from Eppendorf support high to ultra-high throughput processing with minimal hands-on time.

QIAamp Viral RNA Mini and QIAamp 96 Viral RNA standard protocols can also be executed using the TRACKMAN Connected system, paired with PIPETMAN M Connected pipettes, both from Gilson. The TRACKMAN Connected system guides researchers through QIAamp Viral RNA Mini or QIAamp 96 Viral RNA protocols while automatically adjusting the Bluetooth-enabled PIPETMAN M Connected pipette settings. Each step of the protocol execution is recorded to accelerate reporting by generating a comprehensive run report. QIAamp 96 Viral are compatible with Sigma Centrifuge 4-16S (QIAGEN Cat. No. varies) & Sigma Plate Rotor (QIAGEN Cat. No. 81031)

The QIAamp Viral RNA Mini Kit provides:

- Rapid isolation of high-quality, ready-to-use RNA
- No organic extraction or alcohol precipitation
- Complete removal contaminants and inhibitors

Cat. No.	Product	Content
52902	QIAamp Viral RNA Mini Kit (50)	For 50 RNA preps: 50 QIAamp Mini Spin Columns, Carrier RNA, Collection Tubes (2ml) RNase-free buffers
52962	QIAamp 96 Viral RNA Kit (960)	For 960 preps: QIAamp 96 plates, Buffers, RNase-Free Water

### Consumables

19585	S-Blocks (24)	96-well blocks with 2.2 ml wells, 24 per case
19588	Elution Microtubes CL (24 x 96)	Nonsterile polypropylene tubes (0.85 ml max cap, less than 0.7 ml storage capacity, 0.4 ml elution capacity); 2304 in racks of 96; includes cap strips
19571	AirPore Tape Sheets (50)	Microporous tape sheets for covering 96-well blocks: 50 sheets per pack

## Extraction Manual

### Monarch Total RNA Miniprep Kit



The Monarch Total RNA Miniprep Kit is a comprehensive solution for sample preservation, cell lysis, gDNA removal, and purification of total RNA from a wide variety of biological samples, including cultured cells, blood, and mammalian tissues. Additionally, tough-to-lyse samples, such as bacteria, yeast, and plant, can be processed with additional steps that enhance lysis. Cleanup of enzymatic reactions or purification of RNA from TRIzol<sup>®</sup>-extracted samples is also possible using this kit. Purified RNA has high quality metrics, including A260/280 and A260/230 ratios >1.8, high RIN scores, and minimal residual gDNA. Captured RNA ranges in size from full-length rRNAs down to intact miRNAs. Additionally, differential binding conditions allow selective capture or exclusion of the sub-200 nucleotide RNA pool that includes miRNA, 5S rRNA, and tRNA. Purified RNA is suitable for downstream applications, such as RT-qPCR, cDNA synthesis, RNA-seq, Northern blot analysis, etc.

Quickly and easily purify up to 100 µg of high quality total RNA from multiple sample types – all with one kit!

- For use with blood, cells and tissues, saliva, and buccal/nasopharyngeal swabs
- Also works with tough to lyse samples (bacteria, yeast, plant)
- Effectively purifies total RNA of all sizes, including small RNAs >20 nt
- Efficient genomic DNA removal (column and DNase I-based)
- Contains Proteinase K for processing of tissues and blood samples
- Includes DNA/RNA Protection Reagent for sample preservation
- Protocols available for automated RNA extraction from saliva on the QIAcube<sup>®</sup> and KingFisher<sup>™</sup> Flex
- Kit components available separately

Cat. No.	Product	Content
T2010S	Monarch Total RNA Miniprep Kit	50 preps

# Sample Collection

## Direct PCR Kit

### QIAprep & amp (bundle with IDT Primers)



The QIAprep&amp; Viral RNA UM Kit is an innovative liquid-based approach to viral RNA epidemiology. The kit is optimized for ultrafast sample preparation and sensitive real-time PCR detection of enveloped RNA viruses such as coronaviruses from human samples (nasal, oro- and nasopharyngeal swabs) collected in non-fixation transport media like UTM, VTM, PBS, 0.9% NaCl, Virocult, and eSwab. Fewer and simpler workflow steps accelerate the turnaround time and increase testing frequency while decreasing plastic usage, cost, and hands-on time. The method can be seamlessly integrated into automated workflows with standard lab equipment at all throughput needs.

Target	Reporter
Orf1a gene	FAM
N gene	VIC/JOE*
PCR control	Texas Red/Cal Fluor Red 610**
*	ABI 7500 / 7500 Fast: JOE, Texas Red
**	VIC, Cal Fluor Red 610

\*need optimization if used In other RT PCR Instruments

Parameter	Specifications
Limit of Detection	200 copies/mL
Cross-Reactivity	
Compatible Real-Time PCR Thermocycler	Applied Biosystems™ 7500 Real-Time PCR Instrument System with software V2.0.6
	Applied Biosystems™ 7500 Fast Real-Time PCR Instrument System with software V2.0.6
	Bio-Rad CFX96™ Real-time PCR Detection System with software V3.1

#### Ordering Information

Cat. No.	Product	Content
221415	QIAprep&amp; Viral RNA UM Kit (600)	For 600 x 20 µl reactions: 1.2 ml Viral RNA UM Prep Buffer; 2 x 1.5 ml Viral RNA Master Mix, 4x; 1.2 ml RNA IC Template + Assay; 0.6 ml Human Sampling IC Assay; 1 ml QN ROX; 2 x 1.9 ml RNase-Free Water
222015	SARS-CoV-2 N1+N2 Assay Kit (600)	This Assay Kit is compatible with the QIAprep&amp; Viral RNA UM Kit

# Direct PCR Kit

## VTM, Saliva Collector, Gargle Mouthwash Collector



### VTM

biocomma® Transport and Preservation Medium

It is intended for the collection, storage and transport of viruses, mycoplasma, chlamydiae or ureaplasma specimens from the collection site to the testing laboratory. Also available for **Direct PCR** purpose.

### Saliva Collector



biocomma® Saliva collectors collect the oral saliva sample through collection tube, the uniform mixing of the collected saliva with saliva preservation solution to ensure the integrity of DNA/ RNA.

#### Features

- Contactless sample collection, less risk for healthcareworkers.
- Suitable for all kinds of people, easy method to collect samples.
- Easy to use, non-invasive collection.
- Use medical PP material.

### Gargle Mouthwash Collector



biocomma® Saliva Collectors with Gargle Mouthwash is composed of collection funnel, collection tube, saliva preservation solution, and salt water mouthwash. The main components of saliva preservation solution: trihydroxyaminomethane, disodium edetate, disodium hydrogen phosphate, sodium dihydrogen phosphate. The main ingredient of mouthwash: sodium chloride.

### Ordering Information

Cat. No.	Product	Content
<b>VTM</b>		
YVJ-TE4	1*Non-inactivated virus sampling tube(10 mL), containing 3 mL preservation medium,2*pp flocked swab (No. AKL. 10302124219	3mL/pcs, 50pcs/box
YMJ-TE4	1* inactivated virus sampling tube(10 mL), containing 3 mL preservation medium (Inactivated), 2*pp flocked swab (No. AKL. 10302124220)	3mL/pcs, 50pcs/box
YMJ-TE11	1*1 mL inactivated medium, 1* nasopharyngeal swab )– <b>Direct PCR</b>	1mL/pcs, 50pcs/box
<b>Saliva Collector</b>		
SC 11B	Saliva collectors, include 1*funnel, 1*tube, 1*5 mL tube with 2 mL inactivated medium	25 sets/ box
SC 11BV	Saliva collectors, include 1*funnel, 1*tube, 1*5 mL tube with 2 mL classic medium	25 sets/ box
SC 18B	Saliva collector, include 1*funnel, 1*tube, 1*10 mL tube with 2 mL inactivated medium, with paper-poly pouch package	25 sets/ box
SC 18BV	Saliva collector, include 1*funnel, 1*tube, 1*10 mL tube with 2 mL classic medium, with paper-poly pouch package	25 sets/ box
<b>Gargle Mouthwash Collector</b>		
SC20B	Saliva collector, include 1*funnel, 1*tube, 1*10 mL tube with 2 mL inactivated medium, with paper-poly pouch package, 1*5mL Nacl mouthwash	25 sets/ box
SC20BV	Saliva collector, include 1*funnel, 1*tube, 1*10 mL tube with 2 mL classic medium, with paper-poly pouch package, 1*5mL Nacl mouthwash	25 sets/ box

**Sample-To-Answer**  
***Tes Cepat Molekuler***

## Sample-to-Answer

## Test Cepat Molekuler

## ARIES® Luminex (No. AKL. 20304024273)



The ARIES® and ARIES® M1 Systems are sample-to-answer, real-time PCR systems crafted to increase laboratory efficiency, ensure result accuracy, and fit seamlessly into today's lean laboratory.

ARIES® allows your lab to control every aspect of the sample-to-answer testing process, from sample accessioning through result reporting.

### Designed for Improved Lab Efficiency and Workflow

- Universal Assay Protocol allows multiple sample types and up to 12 different IVD assays to be run together in a Random Batch.
- Simultaneous STAT and batch testing on a single ARIES® System.
- Flexible throughput options with the ARIES® two module system or ARIES® M1 System.

### Designed for Seamless Integration and Testing Accuracy

- Internal barcode scanning matches samples to cassettes, enabling position independent results no matter where the cassette is placed in the system.
- Bidirectional LIS connectivity facilitates electronic ordering.<sup>1</sup>
- Integrated touchscreen PC eliminates the need for computer peripherals, maximizing valuable bench space.

### ARIES® Cassettes

ARIES® cassettes contain all of the reagents needed to run PCR testing on a sample. The extraction, purification, amplification, detection reagents, and Sample Processing Control (SPC) are all contained in the cassette. ARIES® cassettes are color coded and can be stored at room temperature, eliminating the need for freezing and thawing of reagents that take up freezer space and add time to preparation. For IVD samples, everything needed to run a sample is contained in the ARIES® cassette and the attached PCR tube.

### Ordering Information

Cat. No.	Product
50-10047	ARIES® SARS-CoV-2 Assay (EUA-IVD) Protocol File (Provided Separately+)
ARIES-M12V1-IV	ARIES® Two Module System (IVD)
ARIES-M6V1-IV	ARIES® M1 System (IVD)
CN-SW47	SYNCT™ Software

\* IVD – Emergency Use Authorization.

+ Contact your Molecular Business Manager, or contact [support@luminexcorp.com](mailto:support@luminexcorp.com).

## **NGS + QDI**

# NGS + QDI



## QIAseq SARS-CoV-2 Primer Panel

For targeted whole genome library preparation of SARS-CoV-2 for genomic surveillance and variant detection

*Features:*

- High-fidelity reagents for reverse transcription and enrichment of SARS-CoV-2 RNA
- When paired with a QIAseq FX DNA Library Unique Dual Index (UDI) Kit, multiplex 384 samples in a single run
- Fast 3 to 3.5 hours enrichment workflow with limited hands-on time
- Powerful tool for genomic surveillance efforts for detection of new SARS-CoV-2 variants
- High-throughput NGS for rapid scale-up of lab capabilities



## QIAseq FX DNA Library Kit



All-enzymatic whole genome and hybrid capture library preparation for Illumina instruments with minimal bias

*Features:*

- Streamlined 2.5-hour workflow for easy automation
  - High library complexity and uniform coverage maximizes interpretable data
  - Unique Dual Index (UDI) adapters available for multiplexing up to 384 samples
- Fragment size, input amount and batch size customizable to any sequencing experiment
  - Flexible DNA inputs of 20 pg –1 µg

## QIAseq DIRECT SARS-CoV-2 Kits

For fast, targeted whole genome library preparation of SARS-CoV-2 for genomic surveillance and variant detection

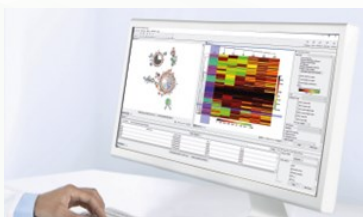
*Features:*

- Fast, 4-hour workflow with no need for fragmentation or ligation reactions
- Highly uniform whole genome coverage for SARS-CoV-2
- Paired with Unique Dual Indices (UDIs)
- A 50% reduction in tip usage compared to ARTIC-based workflows
- High library yields even from low copy number samples



## QIAGEN CLC Genomics Workbench Premium

For single cell analysis, microbial profiling, pathogen typing and outbreak analysis using state-of-the-art bioinformatics



*Features:*

- Fully integrated, scalable solution for microbial genomics and metagenomics
- Data and sample-metadata management included
- Preconfigured workflows that streamline processing of raw NGS data
- Accurate performance – algorithms that save time and computer resources
- Intuitive, easy-to-use software, no bioinformatics expertise required

## Ordering Information

Cat. No.	Product	Packaging Size
333895	QIAseq SARS-CoV-2 Primer Panel (24)	24
333896	QIAseq SARS-CoV-2 Primer Panel (96)	96
180479	QIAseq FX DNA Library UDI-A Kit (96)	96
180480	QIAseq FX DNA Library UDI-B Kit (96)	96
180481	QIAseq FX DNA Library UDI-C Kit (96)	96
180482	QIAseq FX DNA Library UDI-D Kit (96)	96
	<b><u>96-sample configurations</u></b>	
333891	QIAseq DIRECT SARS-CoV-2 Kit A (cat. no. 333891) All reagents + Index Set A	96
333892	QIAseq DIRECT SARS-CoV-2 Kit B (cat. no. 333892) All reagents + Index Set B	96
333893	QIAseq DIRECT SARS-CoV-2 Kit C (cat. no. 333893) All reagents + Index Set C	96
333894	QIAseq DIRECT SARS-CoV-2 Kit D (cat. no. 333894) All reagents + Index Set D	96
	<b><u>384-sample configurations</u></b>	
333898	QIAseq DIRECT SARS-CoV-2 HT (A-D) (cat. no. 333898) All reagents (x 4) + Index Sets A, B, C and D (available April 2021)	384
333899	QIAseq DIRECT SARS-CoV-2 HT (E-H) (cat. no. 333899) All reagents (x 4) + Index Sets E, F, G and H (available Q2 2021)	384
	<b><u>CLC Gx Standard</u></b>	
832021	CLC Gx WB Desktop Plus	1
832022	CLC Gx WB Network Plus	1
832111	CLC Gx Server Plus	1
	<b><u>CLC Gx Premium (include Modules)</u></b>	
832023	CLC Gx WB Premium Desktop	1
832024	CLC Gx WB Premium Network	1
832025	CLC Gx Server Premium	1

# Supporting Instruments

## Supporting Instruments

### Thermo Fisher Scientific

#### Megafuge ST4 Plus Centrifuge Series



Megafuge ST4 Plus Centrifuge series touch screen enables easier programming for quicker results—plus easily access and track all runs, rotor life and centrifuge health. With capacity up to 4L, including 196 blood tubes and 96 15mL conical tubes, AutoLock for fast rotor exchange. With the features:

- Simple Operation Design 006E
- Thermo Scientific™ Auto-Lock™ III Rotor System
- Thermo Scientific™ ClickSeal™ Bucket Sealing System
- Thermo Scientific™ SMARTSpin™ Technology
- Space-Saving Design
- Energy Efficient

#### Forma ULT Freezer 995

Forma 900 Series -86°C freezers are available in four sizes: 13, 17, 23 and 28 cu. ft. (368, 490, 651, 793L) to accommodate your specific lab space and capacity requirements. Centralized information system ensures that all controls and displays are easy to reach and read\*



#### PL6500 Lab Refrigerators

Store general-purpose applications in Thermo Scientific™ PL6500 Lab Refrigerators. All models feature advanced alarm options and reliable temperature stability to meet the demanding requirements of the laboratory environment. Also -40°C Freezer are available.

#### Fresco™ 21 Microcentrifuge (No. AKL. 10209918317)

Save time with the fast sample processing of Thermo Scientific Freso 21 microcentrifuges, providing productivity, versatility, safety and convenience in a compact, easy-to-use lab instrument. Lightweight microcentrifuge rotors are designed to provide acceleration up to 21,100xg in as little as 12 seconds. Refrigeration offers cooling from room temperature to set temperature in just 9 minutes.



## Supporting Instruments



### Barnstead™ Smart2Pure™ Water Purification System

Convert tap water to both ASTM Type 1 and Type 2 water with the compact, all-in-one Thermo Scientific™ Barnstead™ Smart2Pure™ Water Purification System. This complete system produces 3 or 6 liters of ultrapure water per hour. The Smart2Pure 3 and 6 feature a built-in 6L reservoir to store the Type 2 water, while the Smart2Pure 12 offers the choice of a 30L or 60L reservoir for customizable storage capacity. Dispensing is easy and features variable speed to control flow. The display can be tilted for optimal reading. Position this system on the bench or mount on the wall.

### Ordering Information

Cat. No.	Product
75009503	Megafuge ST4 Plus-MD (No. AKL. 10209027005)
75009518	Megafuge ST4R Plus-MD (No. AKL. 10209026900)
995	Forma Series -86°C Upright Ultra-Low Temperature Freezers
PLR386	PL6500 Lab Refrigerator 386 Liters
PLR1006	PL6500 Double-Door Lab Refrigerator 1006 Liters
PLF276	PL6500 Lab Freezer -40°C
75002425	Fresco 21 Refrigerated Microcentrifuge (No. AKL. 10209918317)
50129887	Smart2Pure 6 UV/UF Water Purification System
50129845	Smart2Pure 12 UV/UF Water Purification System
50157873	Smart2Pure Pro 16 UV/UF with 60L Tank Water Purification System

## Supporting Instruments

### Cordless Multi-purpose Centrifuge - Multi Spin



Rotor	MA-1	PA-1
Max. Capacity	2.0 ml × 8 microtubes	0.2 × 8 PCR tubes (2 strips)
Tubes	2.0 ml × 8 microtubes 1.5 ml × 8 microtubes	0.2 × 8 PCR tubes (2 strips)
Speed	6.000rpm (±20%)	6.200rpm (±20%)
Timer	6 min (Fixed)	
Safety Devices	Lid opening interlocking brake, Overcurrent fuse, Motor overcurrent detector (Motor lock, Unbalance)	

### Large Capacity Autoclave – FLS 1000

- Large Capacity 100L
- Perfect Height Design
- Wide Chamber
- Selective Lid Opening: Left or Right. Easy operation using the "Top-open lid", which can be operated easily with a single hand or foot
- Compact Body saves the installation space
- Sterilizing temperature: 105 to 125 °C
- A rapid air-cooling function permitting reduction of chamber cool down time



#### Autoclave SX Series

- Easy operation using the "Top-open lid", which can be operated easily with a single hand or foot
- Compact Body saves the installation space
- A rapid air-cooling function permitting reduction of chamber cool down time
- Effective internal vol: 36 L (SX-300), 50 L (SX-500), 69 L (SX-700)
- Sterilizing Temp.: 105 to 135 °C (0.019 to 0.212 MPa)
- Heating Temp.: 45 to 104 °C (0 to 0.015 Mpa)
- Warming Temp.: 45 to 95 °C

### Ordering Information

Cat. No.	Product
Multi Spin	Cordless Multi-purpose Centrifuge
FLS-1000	Forma Series -86°C Upright Ultra-Low Temperature Freezers
SX-700	Speedy Autoclave Model SX-700
SX-500	Speedy Autoclave Model SX-500
SX-300	Speedy Autoclave Model SX-700

## Supporting Instruments

### V-32 – Multi-Vortex for Tubes

Multi-Vortex V-32 is intended for intensive stirring of bacterial and yeast cell, washing from the culture medium and extraction of metabolites and enzymes from cells and cell cultures. It is different from V-1 by the possibility of mixing up to 32 tubes simultaneously.

Vortex is applicable for:

- Performing various DNA operations — deproteinisation of DNA/ protein complexes;
- Purification of low-molecular DNA/RNA fragments in PCR-diagnostic.

Multi-Vortex has two operation modes:

- Continuous operation;
- Impulse operation.



### V-1 Plus - Personal Vortex

Vortex V-1 plus is an ideal instrument for gentle mixing to vigorous resuspension of cells and biological and chemical liquid components in tubes using eccentric mechanism.

Vortex has two modes:

- Continuous operation;
- Impulse operation (activated by pressing the cap with the tube's bottom).



### TS-100 - Thermo Shaker For Microtubes and PCR Plates

Thermo-Shaker TS-100 provides intensive mixing and temperature control of samples in microtest tubes or PCR plate. Functions of heating (up to +100°C) and mixing can be performed both simultaneously and independently, i.e. the unit implements three devices in one:

- Shaker;
- Dry-block Thermostat;
- Thermo-Shaker.

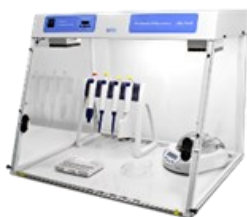


### Ordering Information

Cat. No.	Product
BS-010207-AAG	Multi Vortex V-32
BS-010203-AAG	Personal Vortex V1 Plus
BS-010120-AAI	TS-100 - Thermo Shaker For Microtubes and PCR Plates

## Supporting Instruments

### Biosafety Box



Specification		
	UVC/T-AR DNA/RNA UV-Cleaner Box PCR Workstation	UVC/T-M-AR DNA/RNA UV-Cleaner Box
Walls Material	Plexiglas: Polymethyl methacrylate ALTUGLAS EX	Rear: stainless steel Sides and front: glass (EUROGLASS, Germa- ny)
Working Surface Material	Steel with chemicals resistant pow- der coating	Stainless steel
Open UV-lamp	1 x 25W built-in bactericidal UV-C, TUV 25W 1SL/25	
Radiation Type	UV ( $\lambda = 253.7 \text{ nm}$ ), ozone-free	
Digital Time setting of direct UV exposure	1 min–24 hrs / non–stop (increment 1 min)	
UV Recirculator	1x25W (efficiency >99% per 1 hour)	
Working Area Dimensions	645 × 490 mm	
Safety features:	Automatic open UV-lamp switch off when screen is open	
Power consumption	67 W	
Weight (net/gross)	23 / 33 kg	28.8 / 39 kg



#### UV-Air Flow Cleaner-Recirculator UVR-Mi

##### How does UV-Air Flow Cleaner-Recirculator work?

Operation principle is based on a constant, forced air circulation through recirculator's chamber in close vicinity to UV lamps, thus ensuring maximal efficiency of disinfection. The inner mirror surface of recirculator chamber reflects ultraviolet rays thereby increasing the density of UV radiation and enhancing the disinfection effect.

##### What does UV Air Flow Cleaner-Recirculator consist of?

UV Air Flow Cleaner-Recirculator consists of a germicidal UV lamps, a fan unit equipped with dust filters and a control unit, confined in a flowthrough chamber.

### Ordering Information

## Supporting Instruments



### CLASS II MICROBIOLOGICAL SAFETY CABINET - SAFEMATE EZ

Including premium features in an entry level priced cabinet, the new Class II (type A2) Microbiological Safety Cabinets Safemate EZ series allow everybody to stay safe in an easy way. The “V”-shaped antiobstruction grill allows working without worrying about armrests, while the self positioning electrically operated front sash makes sure that the front aperture is always at the right size for comfort and safety.

No compromise for Operator, Product and Environment. Protection guaranteed as required by EN12469:2000 standard.

#### Features:

**Electrical front sash:** the front glass is operated using the switches on the main control panel allowing effortless opening & closing of the working area.

**V-shaped front grill:** forget about armrests limiting your working position: SafeMate’s V-shaped front grill ensures the front barrier is always at its best.

**Customizable utilities:** want more space in the working area? Do not take the optional taps if. Changed your mind and want the taps? Just buy the option and they will be installed in your cabinet even after sales!

**Fully VHP compliant:** with the optional VHP connector kit you can easily use any Hydrogen Peroxide vapour generation system to fully sterilize your cabinet.

#### Main Specification:

- State of the art AC motorblower enhances energy efficiency, reducing operating costs.
- Fully compliant Class II microbiological safety cabinet according to EN 12469 safety standard
- Air and aerosol tight electrical sliding sash
- UV light on back wall
- V-shaped anti-obstruction front grill
- Optional utilities for gas & vacuum, installable in-field
- Real Time reporting of air speeds (inflow & downflow)
- Fully stainless steel working chamber & surface.

#### Ordering Information

Cat. No.	Product
BI00LDK4000	SAFEMATE EZ CLASS II MICROBIOLOGICAL SAFETY CABINET

## Supporting Instruments

### ULTRA.GUARD™ UF V 500 & V 700 Ultra Low Temperature Freezer -86 °C



**Model UF V 500**

**Model UF V 700**

The new BINDER ULTRA.GUARD ultra-low temperature freezer ensures safe long-term storage of samples at -86 °C. This ultra-low temperature freezer is based on a multi-stage security concept, which offers everything that laboratory staff want from reliable operation to ease of use and system integration to the emergency exchange service!

- Temperature range: -86 °C to -40 °C
- GUARD.CONTROL automatic door mechanism for easy door opening and closing
- Personalized access control with RFID technology
- Vacuum Insulation Panels (VIP) on 5 sides
- Two-stage cascade refrigeration system with hermetically-sealed compressors
- Non-flammable refrigerant, CFC-free, proven industrial standard
- User-friendly microprocessor controller with LED display
  - ◇ Easy to read digital display
  - ◇ Alarm test system
- Built-in visual and audible alarm system for power failure, impermissible temperature deviation or battery failure
- Battery-operated back-up system
  - ◇ Provides full functionality of alarm functions in case of power failure for 72 hours
  - ◇ Improved battery life due to controlled charging
- Heated duplex door gasket reduces icing
- Multiple standard communication interfaces:
  - ◇ RS 422 interface
  - ◇ Potential-free contact
  - ◇ Analog output 4-20 mA
- Inner chamber made of high-quality stainless steel
- Robust, adjustable and lockable casters
- Easy air filter replacement without tools
- SERVICE.PRO 2-year warranty
- BINDER test confirmation

#### Ordering Information

Cat. No.	Product
BS-040102-AAA	UVC/T-AR DNA/RNA UV-cleaner box PCR Workstation
BS-040104-AAA	UVC/T-M-AR DNA/RNA UV-cleaner box
BS-040110-AAA	UV-Air Flow Cleaner-Recirculator UVR-Mi

## Supporting Instruments

### NanoPhotometer UV-VIS Spectrophotometer

The Innovative and Most Trusted Line of UV/Vis Spectrophotometers



NanoPhotometer® N120	NanoPhotometer® N80	NanoPhotometer® N60	NanoPhotometer® C40
Microvolume High Throughput Spectroscopy	All-in-One Spectroscopy	Microvolume Spectroscopy	Cuvette Spectroscopy
<ul style="list-style-type: none"> <li>• High Performance Micro Volume Spectrophotometer</li> <li>• Applications: dsDNA, ssDNA, RNA, mRNA, miRNA,</li> <li>• Oligos, Proteins and Antibodies including dye labeled samples,</li> <li>• small molecules in organic solvents, kinetics in a drop and more</li> <li>• Only 1.7 sec per sample, 20 sec per run (12 samples)</li> <li>• Full high res. scan from 200-900 nm for each sample</li> <li>• Battery powered</li> <li>• Maintenance and recalibration FREE</li> </ul>	<ul style="list-style-type: none"> <li>• All in one Spectrophotometer</li> <li>• Micro-volume and cuvette capability</li> <li>• Applications: dsDNA, ssDNA, RNA, mRNA, miRNA, Oligos,</li> <li>• Proteins and Antibodies including dye labeled samples,</li> <li>• small molecules in organic solvents, kinetics in a drop and more</li> <li>• Battery powered</li> <li>• Built-in vortexer</li> <li>• Maintenance and recalibration FREE</li> </ul>	<ul style="list-style-type: none"> <li>• High Performance Micro Volume Spectrophotometer</li> <li>• Applications: dsDNA, ssDNA, RNA, mRNA, miRNA,</li> <li>• Oligos, Proteins and Antibodies including dye labeled samples,</li> <li>• small molecules in organic solvents, kinetics in a drop and more</li> <li>• Starting at 0.3 µl sample volume</li> <li>• Battery powered</li> <li>• Built-in vortexer</li> <li>• Maintenance and recalibration FREE</li> </ul>	<ul style="list-style-type: none"> <li>• Standard and Micro-volume cuvettes (quartz, glass and plastic)</li> <li>• Applications: OD600 (Cell, Bacterial, Yeast Density),</li> <li>• Bradford, BCA, dsDNA, ssDNA, RNA, mRNA, miRNA, Oligos,</li> <li>• Proteins and Antibodies including dye labeled samples,</li> <li>• small molecules, kinetics and more</li> <li>• Battery powered</li> <li>• Temperature Controlled Cuvette Holder</li> <li>• Maintenance FREE</li> </ul>

### Ordering Information

Cat. No.	Product
N120	NanoPhotometer® N120
NP80	NanoPhotometer® N80
N50/N60	NanoPhotometer® N60
C40	NanoPhotometer® C40

## Supporting Instruments

Sorenson



### Single Channel Manual Pipettors

- Engineered for use with OneTouch Tips
- Compatible with most research-grade tips
- Accurate and reproducible

### Eight Channel Manual Pipettors

- Engineered for use with OneTouch Tips
- Compatible with most research-grade tips
- Accurate and reproducible

### Twelve Channel Manual Pipettors

- Engineered for use with OneTouch Tips
- Compatible with most research-grade tips
- Accurate and reproducible

### Ordering Information

Cat. No.	Product
12740	Single Channel Manual Pipettors
CR-7	Eight Channel Manual Pipettors
12810	Twelve Channel Manual Pipettors

# Supporting Consumables

## Supporting Consumables



### QIAGEN Consumables

Cat. No.	Products	Contents (pcs)
981005	PCR Tubes, 0.2 ml	1000
981103	Strip Tubes and Caps, 0.1 ml (250)	250
990352	Filter-Tips, 1000 $\mu$ l (1024)	1024
990332	Filter-Tips, 200 $\mu$ l (1024)	1024
990394	Rotor Adapters (10x24)	240
990382	Sample Tubes CB (2 ml)	1000
990381	Sample Tubes RB (2 ml)	1000
990352	Filter-Tips, 1000 $\mu$ l (1024)	1024
1050875	Elution Tubes (1.5 ml)	50

CORNING



#### Tube 50 ml 30 x 115 mm Conical PP

Falcon® 50 mL high-clarity polypropylene (PP) conical centrifuge tubes have a 16,000 RCF rating. These sterile tubes are packaged 25 to a bag and 500 to a case. RNase/DNase-free.

#### Tube 15 mL 17x120mm Conical PP

Falcon® 15 mL high-clarity polypropylene (PP) conical centrifuge tubes have a 12,000 RCF rating. The tubes come with polyethylene dome seal screw caps. The sterile tubes are packaged 50 per bag and 500 per case. RNase/DNase-free.



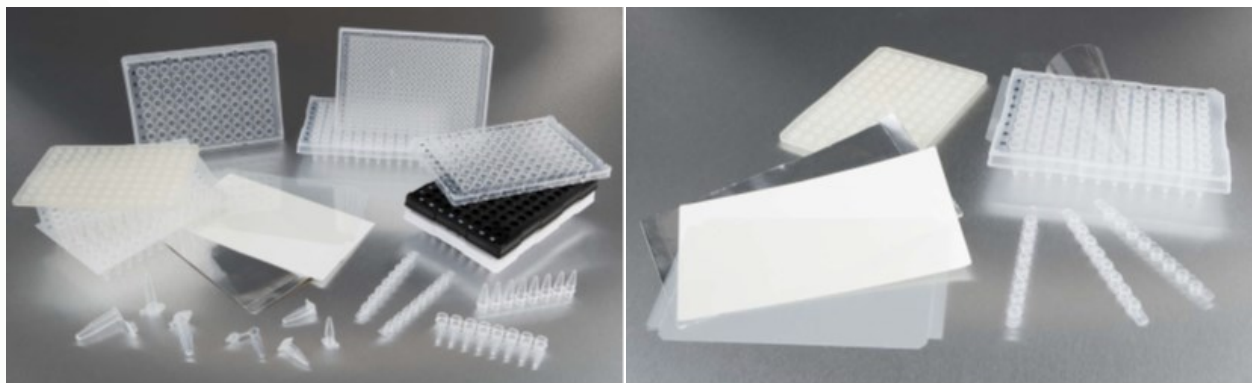
Cat. No.	Products	Contents (pcs)
352070	Tube 50 mL 30 x 115 mm Conical PP	1000
352096	Tube 15 mL 17x120 mm Conical PP	250

## Supporting Consumables

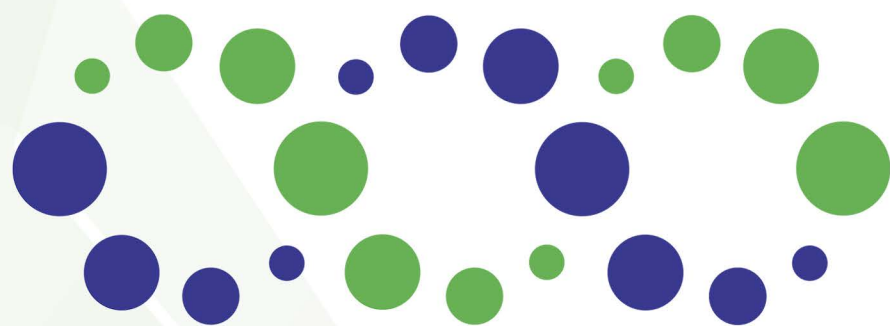


Cat. No.	Products
<b>Barrier Tips</b>	
28200	0.1-10 µl Standard 2, 10 µl Sterile, 96 Tips/Rack 10 Racks/Pack, 5 Packs/Case
28200P	0.1-10 µl Standard 2, 10 µl Sterile, 96 Tips/Rack 10 Racks/Pack
14210	1-20 µl Standard No Graduations Sterile, 96 Tips/Rack 10 Racks/Pack, 5 Packs/Case
14210P	1-20 µl Standard No Graduations Sterile, 96 Tips/Rack 10 Racks/Pack
36060	1-100 µl Standard No Graduations Sterile, 96 Tips/Rack 10 Racks/Pack, 5 Packs/Case
36060P	1-100 µl Standard No Graduations Sterile, 96 Tips/Rack 10 Racks/Pack
14220	1-200 µl Standard No Graduations Sterile, 96 Tips/Rack 10 Racks/Pack, 5 Packs/Case
14220P	1-200 µl Standard No Graduations Sterile, 96 Tips/Rack 10 Racks/Pack
14200	100-1000 µl Standard No Graduations Sterile, 100 Tips/Rack 10 Racks/Pack, 5 Packs/Case
14200P	100-1000 µl Standard No Graduations Sterile, 100 Tips/Rack 10 Racks/Pack
<b>Ultra-Micro Tip</b>	
23580	0.1-10 µl Standard Natural 2, 10 µl Non-Sterile, Bulk 1000 Tips/Bag, 10 Bags/Case
23580P	0.1-10 µl Standard Natural 2, 10 µl Non-Sterile, Bulk 1000 Tips/Bag, 10 Bags/Case
23570	0.1-10 µl Standard Natural 2, 10 µl Sterile, 96 Tips/Rack 10 Racks/Pack, 5 Packs/Case
23570P	0.1-10 µl Standard Natural 2, 10 µl Sterile, 96 Tips/Rack 10 Racks/Pack
<b>Standard Tips</b>	
31770	1-300 µl Standard Natural 10, 50, 100 µl Non-Sterile, Bulk 1000 Tips/Bag, 10 Bags/Case
31770P	1-300 µl Standard Natural 10, 50, 100 µl Non-Sterile, Bulk 1000 Tips/Bag
31790	1-300 µl Standard Natural 10, 50, 100 µl Sterile, 96 Tips/Rack 10 Racks/Pack, 5 Packs/Case
31790P	1-300 µl Standard Natural 10, 50, 100 µl Sterile, 96 Tips/Rack 10 Racks/Pack
31610	50-1250 µl Standard Natural 200, 500,1000 µl Non-Sterile, Bulk 768 Tips/Bag, 10 Bags/Case
31610P	50-1250 µl Standard Natural 200, 500,1000 µl Non-Sterile, Bulk 768 Tips/Bag
34760	50-1250 µl Standard Natural 200, 500,1000 µl Sterile, 96 Tips/Rack 8 Racks/Pack, 5 Packs/Case
34760P	50-1250 µl Standard Natural 200, 500,1000 µl Sterile, 96 Tips/Rack 8 Racks/Pack
15720	1-200 µl Standard Natural 10, 50, 100 µl Non-Sterile, Bulk 1000 Tips/Bag, 10 Bags/Case
15720P	1-200 µl Standard Natural 10, 50, 100 µl Non-Sterile, Bulk 1000 Tips/Bag
15670	1-200 µl Standard Natural 10, 50, 100 µl Sterile, 96 Tips/Rack 10 Racks/Pack, 5 Packs/Case
15670P	1-200 µl Standard Natural 10, 50, 100 µl Sterile, 96 Tips/Rack 10 Racks/Pack
<b>MCT</b>	
11150	Natural Non-Sterile, Bulk Bag 1,000 Tubes/Bag, 10 Bags/Case
11150P	Natural Non-Sterile, Bulk Bag 1,000 Tubes/Bag
11510	Natural Non-Sterile, Bulk Bag 500 Tubes/Bag, 10 Bags/Case
11510P	Natural Non-Sterile, Bulk Bag 500 Tubes/Bag
12000	Natural Non-Sterile, Bulk Bag 400 Tubes/Bag, 10 Bags/Case
12000P	Natural Non-Sterile, Bulk Bag 400 Tubes/Bag

## Supporting Consumables



Cat. No.	Products
<b>PCR Plates</b>	
26190	0.2 ml Rigid 96-Well $\mu$ ltra Plate Natural 25 Plates/Pack, 4 Packs/Case
26190P	0.2 ml Rigid 96-Well $\mu$ ltra Plate Natural 25 Plates/Pack
39690	384-Well NX plate Natural 50 Plates/Pack, 2 Packs/Case
39690P	384-Well NX plate Natural 50 Plates/Pack
<b>PCR Plates and Tube Sealers</b>	
36190	Clear PCR Plate Seal 100 Seals/Case
36590	Real Time PCR Plate Seal 100 Seals/Case
37990	Optically Clear Flat Cap Strips, Natural 250 Cap Strips/Case
<b>PCR Tubes</b>	
15090	Flat, Optically Clear Natural Non-Sterile, Bagged 250 Tube & Cap Strips/Bag, 10 Bags/Case
15090P	Flat, Optically Clear Natural Non-Sterile, Bagged 250 Tube & Cap Strips/Bag
<b>Reagent Reservoirs</b>	
39970	100 ml Yes Polystyrene 5 Reservoirs/Pack, 40 Packs/Case 60



GeneCraft Labs