

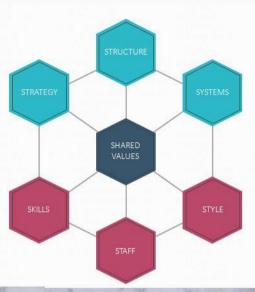


OVERVIEW

E-nnovation Biodiscovery Private Limited, a group venture of e-nnovation Life Sciences established in early 2013, with the goal to support Healthcare, Clinical & Diagnostics segment by providing one stop solutions for all products, services and consultancy.

It was incepted by the professionals from Life Sciences and Biotechnology field.

Provides safe, effective, and affordable healthcare products and services.



Our existing establishments and achievements Pan India

Identifies Technologies and partners across the globe to offer specific & considerable advantage over existing products, technologies and services to the professional/research groups.

International partners with renowned companies like Source BioScience, LLC, GeneTools, CellPath, LGC Bio-search Technologies, etc.

We are committed to bridge the gaps between research and its commercial integration in the healthcare system.







A Group of E-nnovation Biodiscovery Pvt. Ltd.





" YOUR ONE STOP SOLUTION FOR FIGHTING AGAINST CORONAVIRUS"





For more queries, Please visit us at www.myebpl.com or call us at +91-9711347133

You may write us at info@ennovationlifesciences.com, ennovationlifesciences@gmail.com

Our Registered office address- Office no. 67, 3rd Floor, Shiva arcade, Acharya Niketan, Mayur Vihar-1, New Delhi-110091.

Legal foundations



Safety Standards



We are ISO 9001-2015 Certified company which specifies the quality management system. This demonstrate our ability to consistently provide products and services that meet customer and applicable statutory and regulatory requirements. and

b) aims to enhance customer satisfaction through the effective application of the system, including processes for improvement of the system and the assurance of conformity to customer and applicable statutory and regulatory requirements.

E-nnovation is CE & GMP Certified company, which ensure our customer that the products we offer can be legally sold within the country. It ensures that products are consistently produced and controlled according to quality standards.It is designed to minimize the risks involved in any pharmaceutical production that cannot be eliminated through testing the final product.



Our PPE Kits are DRDO/SITRA Certified. These are few government agencies in country, which are handling the testing facilities for PPE.

Quality compliant with the below standards or equivalent for Protective Gloves:

- . EU standard directive 93/42/EEC class, EN 455
- . EU standard directive 89/686/EEC category, EN 374
- . ANSI/SEA 105-2011
- .ASTM D6319-10 or equivalent

Quality Compliant with standards for medical N95 respirator:

NISOH N95, EN 149 FFP2, or equivalent.

Protective clothing for general requirements:

Meets or exceed ISO 16603 class 3 exposure pressure, or equivalent.

Quality compliant with the below standards or equivalent for Protective Glasses/ Face-shield: EU standard directive 89/686/EEC, EN 166/2002

ANSI/SEA 287.1-2010

Quality compliant with the below standards or equivalent for Triple layer Medical Mask

. ISI Specifications or equivalent.

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E-nnovation Presents A Complete Product Brochure to fight against COVID-19



Protective Essentials PPE Kit

Protective clothing



Protective Glasses



Bio-Hazard Bag



Protective Gloves



Protective Mask



Safety Goggles





UV Disinfection Cabinet



Protective Clothing

Protective coveralls for COVID-19 pandemic in India has to comply or meets or exceeds ISO 16603 class 3 exposure pressure.

Depending on the individual risk assessment suitable protective clothing has to be selected. We would be pleased to advise you to determine the appropriate protective clothing suitable for your specific needs.

It's all about your safety.







Protective coverall active breath

MODEL: E&S-C-001

Model E&S-C-001; Protective coverall offers optimum protection against hazardous substances such as chemicals etc. However, this is usually at the expense of breathability and wearing comfort. Fabric used is high quality Non-Woven 100% Virgin, medical grade fabric which offer breathability and protection

Fabric available :

- · 60 GSM Non Woven
- · 80 GSM Non Woven
- · 90 GSM Non Woven

Protective coverall with Lamination

MODEL: E&S-C-002

Model E&S-C-002; Offer protection that comes with laminated fabric. The fabric used meet quality standard as per ISO 16603; Class 3, Synthetic Blood penetration test, Sitra Approved. **Color Option:**

White/Blue

Though the fabric is laminated yet provides comfort being big in size The coverall offers protection against hazardous substances such as drugs, chemical and biological agents. Fabric used is high quality Non-Woven 100% Virgin, medical grade fabric with lamination.

Fabric available :

- · 80 GSM (60GSM + 20 GSM lamination)
- · 90 GSM (70GSM + 20 GSM lamination)



Protective coverail with Lamination

MODEL: E&S-C-003

The model E&S-C-003 made by E&S is the line with development of the type 3 protective overall market. This Model meets the protective requirements of ISO 16603 Class -3 coverall.

The coverall offers good protection against biological agents. The Model E&S-C-003 is suitable for use in pandemics.

Approved by one of the government authorized lab i.e. **DRDO**, the product Model: E&S-C-003 is outstanding when comes to deliver

Fabric is used is highest medical grade fabric laminated and seam sealing is done by approved taping only. Thus you can rely on the product completely.

Fabric available:

- · 80 GSM (60GSM + 20 GSM lamination)
- · 90 GSM (70GSM + 20 GSM lamination)



APPROVED





Latex Examination Gloves

Type : Powdered and non-sterile.

· Material : High-quality Natural Latex.

 Design & Features: Ambidextrous; straight fingers; smooth or textured surface; beaded cuff.

 Shelf-life 5 years from the date of manufacturing.

 Quality Standards: Conforms to ASTM D3578, EN455 Part 1 & 2, AQL 2.5.





Nitrile Examination Gloves

Material : Nitrile Rubber

 Design : Ambidextrous, sterile, beaded cuff and Extra rough (textured) at fingertip surface.

· Sterilization: Non Sterile

Shelf Life: 3 years from the date of manufacture

 Storage condition: Shall be stored in cool dry place and away from direct light

 Quality Standard : ASTM D 6319-2010 & EN455-I:2000 and EN455-II:2011

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Eye Protection is of major importance in the fight with COVID-19. According to the application area and risk assessment different models of eyewear are suitable from simple glasses to safety glasses with frames and face shield.



Safety Glasses

Power: Zero Power

· Design: Flexible Frame

· Quality Standard: ANSI/SEA

Size : Free size, Fit to all

· Fit to face, good sealing with contour of face

· Cover the Eyes and adjacent area

Safety Face-Shield

Power: Zero Power

Design: Flexible Frame

Quality Standard : ANSI/SEA

Size : Free size, Fit to all

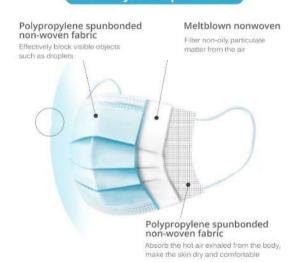
Fit to face, good sealing with contour of face

Cover the Eyes and adjacent area





Three layers of protection



3 Ply Mask

- Disposable Face Mask is made with 3 ply extra soft microfiber material which makes this half face mask comfortable and provides excellent breathability.
- The 3 ply surgical mask has high filtration capacity which keeps your face mouth covered and protected from germs, chemicals, dust particles, fluids, etc.
- These surgical mask 3 Ply feature comfortable elastic ear-loops which enables to use them for long period
- The built-in nose piece moulds itself to the face design to ensure a perfect fit for men and women.
- · These 3 Ply disposable face masks with high bacteria filtration efficiency



Bio Hazard Bags



Biohazard Disposable Bags, PP

Bright colour PP bags are easy to open and are used to dispose used to dispose PPE and other products, made of 51 micron

These bags are printed with biohazard symbol, writing indicator

Design: Rectangular shaped Biohazard Disposable

Material: PP (POLYPROPYLENE)

Color: Red, Yellow, Natural

U.V. Disinfector, Vertical Format HIC - UV - 4







Features

Hintron U.V. Disinfector uses UV-C Light to target the DNA of viruses, fungi and bacteria which comes in contact with U.V. radiation.

Mobile Phones, Currency, Keys, Documents etc. can be sanitised within 3 to 5 min.

Fitted with Digital Timer which automatically cuts off the UV Lights after the completion of set time.

Fitted with 2 Stainless Steel adjustable shelves.

Inner chamber is made of Reflective Stainless Steel which increases the reflectivity of UV Lights.

Specification
UV-C Light- 15 Watts | 18 Inches | 2 Tubes

Housing Robust housing made from heavy gauge CRC Sheet duly powder coated.

Door Magnetic Door with rubber gasket.

Safety Automatic cut-off of UV Light source when door is opened to avoid

accidental contact with UV Radiation.

Power 220 V ± 10% AC, 50 Hz

Dimensions Inner Chamber - L 14 x W 14 x H 20 inches [Approx] | 60 Liters [Approx]

Overall - L 19 x W 16 x H 25 inches [Approx]

 \triangle

Light Source

UV-C Radiation is harmful for eyes and skin.

Do not look directly or expose your skin to UV-C Radiation.





COVID TECHNOLOGY SOLUTION

- 1. Mastermix for COVID-19 Primers & Probes Kit.
- 2. Sbeadex Viral RNA Isolation Kit.



1. Mastermix for COVID-19 Primers and Probes Kits-



Cat No.	Product	Size/Volume
TBD	RapiDxFire qPCR 5X One- step System	100ml (for running 25000 reactions)

Please note:

- (1) Each RapiDxFire qPCR 5X One-Step System of 100ml Bulk includes two tubes:
- RapiDxFire 5x qPCR Master Mix 100ml

EpiScript RT 12.5ml



Sbeadex Viral RNA Isolation Kit

For Research Use only. Not for use in diagnostic procedures.

Purification kit solution for viral RNA preparations

Coronavirus disease 2019 (COVID-19) is an infectious human disease caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). Key to the successful detection of this positive-sense single-stranded RNA (+ssRNA) virus is the reliable purification of RNA from swabs in UTM and sputum samples. The sbeadex™ viral RNA isolation kit utilises magnetic bead-based RNA purification technology to facilitate reliable high quality RNA preparations for use in downstream real-time PCR applications.

sbeadex kits for swabs in UTM and sputum samples

LGC, Biosearch Technologies™ is an international supplier of extraction and purification kits and is primarily focused on automated high-throughput kits. The sbeadex viral RNA isolation kit portfolio offers products for all scales of nucleic acid preparation from swabs in UTM and sputum samples, eluting in 100 µL buffer. The performance of these kits on viral material has been demonstrated using AccuPlex™ Reference Material from LGC SeraCare Life Sciences. The AccuPlex™ Reference Material Kit and Verification Panel are non-infectious and replication deficient full process SARS-CoV-2 Quality Solutions optimised for assay verification at installation and measuring day-to-day performance. The sbeadex viral RNA isolation kit protocol is automatable using Biosearch Technologies' oKtopure™ instrument and the KingFisher Flex Purification system (ThermoFisher Scientific).

The sbeadex viral RNA isolation solution

- High-quality RNA preparations for downstream real-time PCR applications
- High-throughput batch sizes (5,000 and 10,000 purifications)
- Compatible with standard swab types
- Water-based wash buffers reduce solvent carryover, resulting in absence of PCR inhibitors in final elutate
- Purified RNA compatible with Biosearch Technologies' CDCqualified probe and primer kit

RNA preparation protocol

The sbeadex kits use magnetic separation for the purification of nucleic acids. Superparamagnetic particles coated with sbeadex surface chemistry use a novel two-step binding mechanism which, when combined with the washing steps, removes impurities from the preparation. After washing, the RNA is eluted from the magnetic particles and is ready for use in downstream RT-PCR applications.



Application areas

Standard protocols are available for use on both the oKtopure (Biosearch Technologies) and the KingFisher magnetic particle processor (ThermoFisher Scientific) for 100 µL starting sample volumes. If you require further assistance, please contact our technical specialists.

Advantages

- Efficient purification of high quality RNA from swabs in UTM and sputum samples
- Easy to automate magnetic microparticle handling offers flexibility in automated processing
- · Convenient all buffers are supplied ready to use
- Absence of PCR inhibitors no organic solvents or chaotrophic salts in final wash buffers
- Use with the oKtopure full walk-away RNA extraction after lysis step

Ordering information

Geographical region	Catalogue number	Number of purifications per kit*
	NAP-40-024-02	960 (trial kit)
RoW (excluding APAC)	NAP-40-024-03	5000
	NAP-40-024-04	10000
TETE INTO	NAP-40-025-02	960 (trial kit)
APAC-suitable (without dangerous goods)	NAP-40-025-03	5000
(without dangerous goods)	NAP-40-025-04	10000

Catalogue numbers for sbeadex viral RNA isolation kits. RoW = rest of world; APAC – Asia-Pacific *Number of purifications is based on a starting volume of 100 µL sample.





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Fully Automated Extraction System - RNA Extraction Kit

- By Perkin Elmer





AMBINOVA AMI SERIES BIOSAFETY CABINET CLASS II TYPE A2

Introduction

Ambinova Biological Safety Cabinet Class II type A2 is designed to protect the lab staff, the environment and sensitive work processes in which biological agents are used. The safety cabinet offers a high level of contamination protection, based on two advanced HEPA filters operating at an efficiency of 99.9999% with a particle count of 0.3 um & an airflow pattern of 70% downflow and 30% exhaust. The Cabinet's galvanized steel construction with UV resistant powder coating ensures durability, long life & rust free performance. The interior of the cabinet including the work area is made of SS304 with spillage tray & tempered glass side walls. The Cabinet is equipped with a smart, safe and user friendly colour touch-screen control system that protects the operator and provides alerts for periodic maintenance actions and parts' replacement. All components have low energy consumption, LED lighting and an dual DC fan motor. The system also has a programmable "standby" mode, that shuts down all unnecessary electricity consumption and sets vital components at the required safety level.



Specifications

- UV resistant powder coated with SS304 interior
- Tempered glass side walls
- Two HEPA filters
- Dual DC centrifugal blowers
- Elegant Touch screen control system
- Complete monitoring of the parameters of the cabinet through advanced microprocessor
- With memory function in case of power failure
- Complete interior made of single piece stainless steel
- Inter lock: UV & glass sash; UV Lamp & blower, LED lamp; Blower & glass sash
- Front 100 slanted to offer operator comfort while working for long hours, reduce glare &
- maximize utilization of the work area
- 6mm double layer tempered safety front glass window
- Standby mode to economize power consumption
- 70% recirculation; 30% exhaust
- ISO 5/Class 100 cleanliness level according to ISO 14644-1 & US standard 209E
- EN12469 certified



Ordering Details

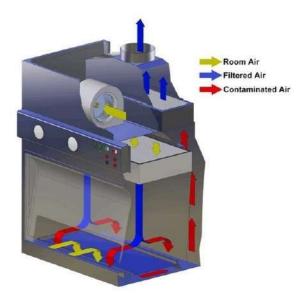
Specs/Model	AMI#1000-3	AMI #1000-4	AMI #1000-6
External Size (WXDXH)	1030X775X2295mm	1380X775X2295mm	1 870X775X2295mm
Internal Size (WXDXH)	910X600X600mm	1210X600X600mm	1700X600X600mm
Working Area Height	750 mm	750 mm	750 mm
Maximum Front Sash Opening	520 mm	520 mm	520 mm
Tested Front Sash Opening	250 mm	250 mm	250 mm
Production/Test Standard	CE/EN12469	CE/EN12469	CE/EN12469
Air Flow Volume(Inflow)	470m /h	590m /h	830m /h
3Air Flow Volume(Downflow)	685m /h	860m /h	1210m /h
Downflow Velocity	0.45m/s, 90FPM	0.45m/s, 90FPM	0.45m/s, 90FPM
Inflow Velocity	0.5m/s, 100FPM	0.5m/s, 100FPM	0.5m/s, 100FPM
Airflow Pattern	29	70% recirculation, 30% exhaust	536
Front Window	Double layered laminated toughened glass 6mm thick UV resistant		
Filter	HEPA/ULPA Two, 99.9999% e	efficiency at a particle count of 0.3um,	with filter life indication
Noise Level	<58dB	<58dB	<58dB
Illumination	>120	OOLux Eco-friendly LED light (22W X 2)	
Display		Colour Touch Screen Display	
Waterproof Sockets	Two	Two	Two
Taps	Water ⁻	Tap : 1 ; Gas Tap : 1 ; Vacuum/Air Tap :	1
Alarms	Deviation in airflow velocity, Filter replacement, sash position, UV life timer		
DC Centrifugal Blower	Dual DC Centrifugal blower with speed control, high efficiency & low power consumption		
UV Lamp	30W ; 254nm		
Power Supply	110/220V 50/60Hz, Single Phase		



Foot Master Castor Wheels



UV Decontamination



Class II Type A2 Air Flow Design

" Your One Stop Solution for Fighting Against CORONAVIRUS"



STANDARD OPERATING PROTOCOLS FOR NOVEL CORONAVIRUS (SARS-nCoV-2) RT-PCR TESTING

Content

- 1. Lab Requirements for 2019-nCoV RT PCR Test
- 2. Protocol for Decontamination of 2019-nCoV Labs/ Work area
- 3. Protocol for handling 2019-nCoV RNA samples for RT PCR testing
- 4. Protocol for 2019-nCoV viral sample collection, packaging and transportation in TRIzol reagent
- 5. Protocol for RNA isolation from 2019-nCoV samples collected in Trizol® Reagent
- 6. List of Consumables and Equipments



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Lab Requirements for 2019-nCoV RT PCR Test

Lab 1 - Sample Receiving lab:

A laboratory where shipment or box containing the 2019-nCoV samples are received and stored for decontamination.

Ma	iter	ials	req	uir	ed:
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Si no	Item
1	Lab Table / Bench
2	Autoclavable disposable bags of various sizes
3	1% bleach solution
4	Lab gloves of various sizes
5	Tissue paper / Tissue wipes
6	Biological material discard bins - Marked with Biohazard labels

Lab 2 - RT-PCR Lab

A laboratory for conducting RT PCR assays specific for the 2019-nCoV. Materials required:

List of equipments Item

Sl no

1	Biosafety cabinet (Class 2)
2	RT-PCR instrument
3	Pipette Set (10ul, 20ul, 200ul and 1000ul)
4	Cooling centrifuge with RT plate adapters
List of c	onsumables
Sl no	Item
1	1.5ml Microcentrifuge Tube
2	Filter pipette tips (10ul, 20ul, 200ul and 1000ul)
3	0.2 mL Thin Wall PCR Tubes
4	Discard containers
5	Autoclavable biosafety bags (small and large size)
List all c	leaning materials
Sl no	Item

SI no		
1	RT384 well skirted PCR Plate with sealing film	
2	1.5ml Microcentrifuge tube	
3	Filter pipette tips (10ul, 20ul, 200ul and 1000ul)	
4	0.2 mL Thin Wall PCR Tubes	
5	Discard containers	
6	Autoclavable biosafety bags (small and large size)	

List all	cleaning materials	
Sl no	Item	
1	70% Ethanol	
2	D-125 Disinfectant	
3	D-256 Disinfectant	
4	1% sodium hypochlorite solution (Bleach)	
5	Wiping cloth	
6	Tissue rolls/ Kimwipes	100

Lab 4 - Inventory / Changing Lab

A laboratory for holding the PPE inventory and may also double up as a changing room for staff involved in the 2019-nCoV assays.

List of consumables

SI no	Item
1	Lab coats (liquid repellent material)
2	Disposable Gowns
3	Disposable shoe covers
4	Disposable head caps
5	Gloves (All sizes)
6	Goggles
7	Surgical masks/ N95 masks
8	Autoclavable biosafety bags (small and large size)
9	Discard bins
10	Hand sanitizer

Lab 3- Reagent Preparation Lab

70% Ethanol D-125 Disinfectant D-256 Disinfectant

Wiping cloth Tissue rolls/ Kimwipes Absorbent Pads

A laboratory for preparing the reagents for RT PCR.

1% sodium hypochlorite solution (Bleach)

List of equipments

SI no	Item
1	Deep freezer (-20 °C)
2	Microcentrifuge spin with 1.5 ml and PCR tube adapters
3	Pipette Set (10ul, 20ul, 200ul and 1000ul)
4	Vortex mixture

- Clearly mark Entry and Exit Doorways with Biohazard labels.
- Restrict movement through the 2019-nCoV lab area.
- Ensure that adequate waste bins marked with Biohazard labels are kept at the entry and exit points.
- Ensure that all personnel entering the 2019-nCoV labs are having protective gear.

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Protocol for Decontamination of 2019-nCoV Labs/ Work area

Checklist		
S. No	Item	
	Disposable gloves	
2	Disposable mask	
l .	Disposable shoe cover	
1	Disposable head caps	
i	Lab coat	
5	0.4% and 1% Sodium Hypochlorite	
7	70% Ethanol	
3	Disposable mops	
)	Disposable wiping cloth	
0	Autoclavable disposable bags (all sizes)	
1	Good quality rubber bands	

10	Autoclavable disposable bags (all sizes)
11	Good quality rubber bands
List	of consumables
SLI	o Item
1	Trizol Reagent
2	Leak-Proof screw cap tubes (4 ml)
3	Sterile specimen collection swabs
4	Specimen transport box
L	st of Consumables and Equipments
Pleas	e check for GoI MoHFW / ICMR/ WHO updates on regular basis for changes related to SOPs nts/ kits/ statutory requirements
Sai	nple Collection
Sr. N	o Item Description
1	Sodium Hypoclorite Solution
2	Ethanol absolute for analysis EMSURE®

REC.	JP(F) P P P P P P P P P P P P P P P P P P P
4	Disinfectant (D-125)
5	Disinfectant (D-256)
San	nple Processing
Sr. I	No. Item Description
1	Any ICMR authorized kit/ QIAamp Viral RNA mini Kit

3	N-95 Mask	
4	Head Cover	
5	Goggles	
6	Shoe Cover	
7	Gloves (M)	
8	Gloves (S)	
9	Gloves (L)	
10	Blotting sheets	
11	Cryoboxes	
10	Minimator (1 5ml)	

12	Willicoolei (1.5iiii)
13	Minicooler (0.2ml)
14	Specimen container 1000ml
15	Specimen container 500ml
16	Cryo babies
17	Cryotags
18	Autoclavable Biohazard Bag

Sl No	Item Description	
1	RealStar SARS-CoV-2 RT-PCR kit 1.0*	
2	Patho Detect*	
* Order	er any ICMR authorized kits or FDA/CE certified kits as per availability	
4	Primer and Probes - ICMR/WHO authorized primers only	
5	0.1-10ul single channel pipette	4
6	2-20ul single channel pipette	
7	20-200ul single channel pipette	1.
8	100-1000ul single channel pipette	63
9	384 Rt-Plates(White) with seals	
10	10ul filter tips	
11	20ul filter tips	
12	200ul filter tips	
13	1ml filter tips	
14	1.5ml microfuge tubes	
15	200ul PCR tubes	
16	PCR strip tubes	
17	Real Time PCR	
18	Ultra-Low Temperature Freezers (-80)	
19	Deep freezer	