

## SCOPE OF WORK and TECHNICAL REQUIREMENTS

### Laboratory Reagent and Consumable

*Purpose: To strength laboratory surveillance for the non-influenza respiratory viruses associated with severe acute respiratory infections (SARI) in Vietnam as part of the Global Health Security Agenda (GHS). U.S. CDC supports Ministry of Health in Vietnam to implement SARI surveillance, in order to implement this surveillance, procurement of essential laboratory reagents, devices and consumables are required:*

- a) PCR reagents, lab consumables are used to perform real-time RT-PCR assays for testing specimens obtained from SARI surveillance to detect non-influenza respiratory pathogens in symptomatic patients, in accordance with the U.S. CDC approved protocol.*
- b) Sample collection devices are used to collect specimen from Nasopharyngeal and Oropharyngeal (throat) in adult and pediatric.*

*Listed below are brand manes – equivalent can be quoted.*

No	Description - Specification	Unit	Quantity
1	<p><b>Real-time PCR Reagents</b>  <i>Feature and specifications:</i>                      PCR test kit can detect respiratory viruses other than influenza including Respiratory syncytial virus; Human metapneumovirus; Parainfluenza viruses 1,2,3 and 4; Human coronaviruses (HCoVs); Adenovirus; Rhinovirus; Respiratory enterovirus and Human bocavirus. (We prefer AgPath-ID™ One-Step RT-PCR Reagents)</p> <p><b>PCR Method:</b> 1-Step qRT-PCR (Consistent amplification of RNA targets with high specificity and sensitivity)</p> <p><b>Reverse Transcriptase:</b> ArrayScript™ Reverse Transcriptase</p> <p><b>Polymerase:</b> AmpliTaq Gold® DNA Polymerase</p> <p><b>Detection Method:</b> Primer-Probe Detection (Optimized to work with your target-specific primers and probes)</p> <p><b>Primer-Probe Compatibility:</b> TaqMan®</p> <p><b>Reaction Speed:</b> Standard</p> <p><b>Platform:</b> 7500 Fast System</p> <p><b>Sample Type (General):</b> RNA</p> <p><b>Passive Reference Dye:</b> ROX (Pre-mixed -Contains ROX for quantitative fluorescent signal normalization )</p> <p><b>Packed:</b> 1000 tests/kit</p>	box	8

2	<p><b>RNA Extraction Mini kit</b></p> <p>For isolation of viral RNA from cell-free body fluids. The Kit simplifies purification of viral RNA from cell-free body fluids with fast spin-column or vacuum procedures. Viral RNA binds specifically to the 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</p> <table border="0"> <thead> <tr> <th data-bbox="228 485 337 516"><b>Feature</b></th> <th data-bbox="854 485 1044 516"><b>Specifications</b></th> </tr> </thead> <tbody> <tr> <td data-bbox="228 527 394 558">Applications</td> <td data-bbox="854 527 1206 558">PCR, qPCR, real-time PCR</td> </tr> <tr> <td data-bbox="228 569 428 600">Elution volume</td> <td data-bbox="854 569 927 600">50 µl</td> </tr> <tr> <td data-bbox="228 611 326 642">Format</td> <td data-bbox="854 611 1029 642">Spin columns</td> </tr> <tr> <td data-bbox="228 653 459 684">Main sample type</td> <td data-bbox="854 653 1024 684">Liquid media</td> </tr> <tr> <td data-bbox="228 716 370 747">Processing</td> <td data-bbox="854 695 1187 768">Manual (centrifugation or vacuum)</td> </tr> <tr> <td data-bbox="228 779 792 852">Purification of total RNA, miRNA, poly A+ mRNA, DNA or protein</td> <td data-bbox="854 800 995 831">Viral RNA</td> </tr> <tr> <td data-bbox="228 863 431 894">Sample amount</td> <td data-bbox="854 863 938 894">140 µl</td> </tr> <tr> <td data-bbox="228 905 383 936">Technology</td> <td data-bbox="854 905 1076 936">Silica technology</td> </tr> <tr> <td data-bbox="228 947 545 978">Time per run or per prep</td> <td data-bbox="854 947 1044 978">20–40 minutes</td> </tr> <tr> <td data-bbox="228 989 305 1020">Yield</td> <td data-bbox="854 989 1052 1020">&gt;90% recovery</td> </tr> </tbody> </table> <p><b>Packed: 250 test</b></p>	<b>Feature</b>	<b>Specifications</b>	Applications	PCR, qPCR, real-time PCR	Elution volume	50 µl	Format	Spin columns	Main sample type	Liquid media	Processing	Manual (centrifugation or vacuum)	Purification of total RNA, miRNA, poly A+ mRNA, DNA or protein	Viral RNA	Sample amount	140 µl	Technology	Silica technology	Time per run or per prep	20–40 minutes	Yield	>90% recovery	box	4
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3	<p><b>Filter Tip 10ul</b></p> <p>Low binding barrier tips, Natural, Graduated, Hinged Racks, Sterile. Volume range: 0.1-10ul, packed: 96p/rack, 960p/case</p> <p>Nonpyrogenic Human DNA-free RNase-/DNase-free Sterility Assurance Level 10-3</p>	Case	39																						
4	<p><b>Filter Tip 20ul</b></p> <p>Low binding barrier tips, Natural, Graduated, Hinged Racks, Sterile. Volume range: 1-20ul, Nonpyrogenic Human DNA-free RNase-/DNase-free Sterility Assurance Level 10-3</p> <p><b>Packed: 96p/rack, 960p/case</b></p>	Case	10																						

5	<p><b>Filter Tip 200ul</b>  Low binding barrier tips, Natural, Graduated, Hinged Racks, Sterile.  Volume range: 1-200ul  Nonpyrogenic  Human DNA-free  RNase-/DNase-free  Sterility Assurance Level 10-3  <b>Packed: 960/case</b></p>	Case	8
6	<p><b>MicroAmp® Optical 8-Cap Strips</b>  Optical, 8-Cap Strip,  Fit on MicroAmp® tube strips and 96-well plates  Easy to apply and remove  Flat-top profile and are suitable for real-time PCR  Will not interfere with sample reading  Provides tight seal to minimize evaporation  <b>Packed: 300 strips/ box</b></p>	Case	19
7	<p><b>MicroAmp® Fast Optical 96-Well Reaction Plate with Barcode, 0.1 mL</b>  Format: 96-well plate, Includes Barcode, Optical, Capacity: 96 x 0.1 ml,  Appropriate fit forth Applied Biosystems® Fast PCR  <b>Packed: 20 plate/ Box</b></p>	Case	15
8	<p><b>1 - 2mL Cryogenic Vial Storage Box 81 Vials</b>  For use with 1 to 2mL cryogenic vials  Box is made from orange polycarbonate  Holds 81 vials in a 9 x 9 array  Ridges on the sides of the box  <b>Packed: 1/case</b></p>	Case	38
9	<p><b>Powder free glove, small size</b>  Small size  • 100 per box  • Cream color  • Latex provides high durability and a snug, form-fitting feel  • Powder-free gloves are ideal where residue is an issue  <b>Packed: 100/box</b></p>	Box	30
10	<p><b>Powder free glove, medium size</b>  • Medium size  • 100 per box  • Cream color  • Latex provides high durability and a snug, form-fitting feel  • Powder-free gloves are ideal where residue is an issue  <b>Packed: 100/box</b></p>	Box	30

11	<p><b>Nylon Flocked Dry Swabs in Peel Pouche (for children)</b>  <b>Handle:</b> Serrated plastic or metal stick  <b>Tip:</b> Rayon Contoured pediatric  Sterile  Individually wrapped  Length 88mm  <b>Packed:</b> 100/bag</p>	Bag	14
12	<p><b>Nylon Flocked Dry Swabs in Peel Pouched (for adult)</b>  <b>Handle:</b> Serrated plastic or metal stick  <b>Tip:</b> Rayon Contoured adult  Sterile  Individually wrapped  Length 88mm  <b>Packed:</b> 100/bag</p>	Bag	20
13	<p><b>Standard Rayon Tip with Semi-Flexible Polystyrene Handle</b>  Overall Length: 6" (152.4 mm)  <b>Handle:</b> Polystyrene  <b>Tip Material:</b> Rayon  Sterile  Individually wrapped polyester swab  <b>Packed:</b> 100 pieces/case</p>	Case	30
14	<p><b>Viral Transport media</b>  Viral Transport media is used for collection, transport, maintenance and long term freeze storage of Viruses, such as Influenza, including H1N1, Chlamydia, Mycoplasma and Ureaplasma specimens. It can be conveniently stored at room temperature.  Unique Media formulation includes antibiotics to inhibit bacteria and fungal flora in patient samples  16x100 mm tube, 3 ml UTM medium  Contain of 1-3mL sterile viral transport medium  Room temperature stable  <b>Storage:</b> 2-25°C for 10-12 months  <b>Packed:</b> 6x50 tubes</p>	Pack	5
15	<p><b>Tongue depressor</b>  Sterile, Wood, 6"x0.6875", 100/BX  Packed: 100/box</p>	Box	30
16	<p><b>Face mask (surgical mask)</b>  Disposable  Packed: 50/box</p>	Box	60
17	<p><b>Powder glove, small size</b>  • Small size  • 100 per box  • Cream color  Packed: 100/box</p>	Box	30
18	<p><b>Powder glove, medium size</b>  • Medium size  • 100 per box</p>	Box	30

	• Cream color Packed: 100/box		
19	<b>Parafilm 4x125</b>	Each	8
20	<b>Ziplock bag (small size)</b> Packed: 100/bag	Bag	30
21	<b>Ziplock bag (big size)</b> Packed: 100/bag	Bag	8
22	<b>Label Sheet</b> Packed: 100 sheet	Each	30

## II. Terms and conditions:

### 1. Price:

- (a) The price is inclusive of all fees and labor related to shipping, handling, insurance, customs clearance, and distribution to the sites outlined below

### 2. Delivery Terms

- (a) Delivery Date is to be understood as the time the Goods as listed above have to be available at the delivery locations listed in section 5.
- (b) The Supplier will make 1 (one) distribution within 3-4 weeks of Purchase Order signing to CDC's recipient sites ("Recipients") listed in section 5. Both parties will confirm in writing the quantity of goods, time of delivery, and Recipient's name and address before the delivery.

### 3. Quality Assurance

- (a) Supplier have an Authorized Letter of Manufacture for goods
- (b) Supplier commits that all Goods supplied under this Purchase Order shall be in compliance with all appropriate national regulatory authorities, requirements of the Government of Vietnam and with relevant certification standards for the production of Goods.
- (b) Supplier guarantees that the Goods are 100% new and are in accordance with the manufacturer's highest standards. The expiry date of the goods must be at least 10 (ten) months beyond the date the Products are received at end of users.
- (c) Supplier will make reasonable accommodations for Purchaser to inspect Goods before delivery. Purchaser also has the right to inspect Goods after delivery. Upon inspection of the Goods, US CDC shall promptly notify the Supplier of any damages to the Goods and Supplier shall work with US CDC to remedy these damages.
- (d) Purchaser may conduct quality surveys on randomly selected items. If surveys detect testing result discrepancies not in line with the manufacturer's specifications, Supplier agrees to replace the damaged or defective Goods.

### 4. Services

- (a) Supplier have to ensure that all goods have to store and ship in according with the manufacture's standards/conditions.

(b) Should Receivers find any sub-standard Products due to manufacturer's fault or shipping/distribution damage, the lot will be returned to Supplier, and Supplier will replace the faulty products with new products within 60 days of written notification.

**5. List of designated destinations:** Door to door delivery as follows:

No	Name of recipient	Address	Person of contact	Phone number
1	Virology Lab Department at National Institute of Hygiene and Epidemiology	No.1 Yersin Street., Hanoi, Vietnam		
2	Virology Lab Department at Nha Trang Pasteur Institute	No. 8 Tran Phu Street., Nha Trang city, Khanh Hoa Province, Vietnam		
3	Virology Lab Department of Pasteur Institute in Ho Chi Minh City	No. 167 Pasteur Street., District 3, Ho Chi Minh City, Vietnam		
4	Virology Lab Department at Tay Nguyen Institute of Hygiene and Epidemiology	No. 59 Hai Ba Trung Street., Buon Me Thuat city, Dak Lak province, Vietnam		