

## Check list for labs for initiation of Influenza testing

<b>Infrastructure</b>
<b>1. Rooms</b>
Sample receiving room
Sample processing (BSL-2 lab with BSL -3 practices minimum)
RNA/DNA isolation
Pre PCR room
PCR room
<b>2. Equipment</b>
Biosafety cabinet (BSL-2)
Refrigerator
Deep freezer -20°C
Deep freezer (-70°C)
Real Time PCR System
Vortex Mixer
Table top centrifuge to hold 1.5ml centrifuge tubes rotor (Speed up to 14000rpm)
Dry Heat Bath to hold 1.5 ml centrifuge tubes blocks .(Temperature range up to 100°C)
Cool boxes (mini cooler) -4°C and -20°C to hold 1.5ml tubes.
Micropipettes (3sets: separate set to be used for RNS isolation, PCR reaction mix and template addition) 0.5µl to 10µl 2µl to 20µl 10µl to 100µl 20µl to 200µl 100µl to 1000µl
Autoclave for decontamination
Water purifier system
<b>3. Plastic ware</b>
1.5ml centrifuge tubes
0.2ml or 0.1ml (as per the PCR system requirement) optical 8 tube strips
Optical 8-cap strips
Racks for holding 0.2ml PCR tubes
Racks for holding 1.5ml centrifuge tubes
Disposable micro filter tips compatible to micropipettes i.e. small tips (0.5µl to 10µl), Yellow tips (10µl to 200µl) and blue tips(100µl to 1000µl)
Powder free nitrile gloves
Storage boxes to hold 1.5ml tubes
Cryovials ( Sample storage) 1.8 ml
Label for vials

<b>4. Reagents</b>
Viral Transport Medium(VTM)
Throat Swabs (Dacron tip)
RNA isolation kits
Primers and Probes to detect all influenza viruses ( influenza A,B,A(H3N2),A(H1N1)pdm09, Type B Yamagata, Type B Victoria and internal control RNP different gene targets (Influenza A, Pandemic A, Pandemic H1 and RNP in case of detection of Influenza a , Pandemic H1N1)
qRT-PCR kit
nucleic acid destroying agent
Ethanol
Isopropanol
<b>5. Miscellaneous items</b>
Hand Sanitizer
Glass marker
Wipes
Waste disposable bags and container system
Log books for equipment
Equipment health record
laboratory records books, SOPs
Color coded discarding bags
<b>6. PPE</b>
Gloves
Gown
Mask <ul style="list-style-type: none"> <li>• Triple layer</li> <li>• N95</li> </ul>
Shoe cover
Head Cover
Face shield/Eye cover
<b>7. Vaccination (Influenza) of Staff</b>
<b>8. Health record of staff (Vaccination record)</b>
<b>9. Proficiency record of staff</b>
<b>10. Personnel trained in Molecular testing especially Real Time PCR</b>