Protocol for virus isolation

Key point:

- 1. Sample should be fresh, less freeze and thaw is better.
- 2. Cell lines used for virus isolation should be maintained at good state.

Materials:

- 1. Cell line: VeroE6, Huh7
- 2. DMEM medium, Fetal bovine serum (FBS), Anti-anti (Gbico, REF15240-062)
- 3. Filter(0.45 µm), cell culture plate (24 wells)

Seeding of plates

1. The day prior to isolations seed 24 wells plate as follows

VeroE6 1X10⁵ cells per well

Huh7 1.5X10⁵ cells per well

Isolation Procedure

- (1) Sample: Oral swab or bronchoalveolar lavage fluid,
- (2) Liquid samples were filtered with filter (0.45 μm),
- (3) Remove the medium of the cell plates,
- (4) Add 200 µL filtered samples each well, each sample inoculate two wells,
- (5) Incubate at 37 °C for 1 hour,
- (6) Add DMEM medium and add FBS with 2% final concentration,
- (7) Also add anti-anti to a final concentration of 2 times,
- (8) Incubate at 37 °C, check the plate everyday.

Result

- 1. With cytopathic effect, identify the virus.
- 2. Without cytopathic effect, infect next generation as first round.