

Protocol of recovery of virus from weaved tissue handkerchiefs and fabrics used in passenger cabins in civil aeronautics (rough and porous surfaces)

Materials

- Weaved tissue handkerchiefs: cut with scissors (3 cm pieces by 2 cm)
- Fabrics (FRANCHEL-Fabric ref: 3486LS450-A0100, batch number: 1033301): cut with scissors (3 cm pieces by 2 cm), edges of the fabric warmed with a lighter.
- Automatic pipettes and cones with filter
- 15 ml plastics sterilised tubes
- Ball mill FastPrep-24 apparatus (MPBiomedicals ref: 6004500)
- Tube holder for FastPrep-24 apparatus: 12x15ml Adapter (MPBiomedicals ref: 6002526)
- Balls-1/4 Ceramic Sphere (MPBiomedicals, LLC ref: 6540-412)

Weaved tissue handkerchiefs and balls were sterilised by autoclave (20 minutes at 121°C).

Fabrics used are not sterilised.

Reagents

- Medium for cells culture: MEM + tricine + Penicilline + Streptomycine

Methods

- 50 µL of viral suspension is spotted on the surface of weaved tissue handkerchief or the fabrics.
- One weaved tissue handkerchief or one fabric is placed inside a plastic sterile tube containing 1950 µL of medium for cells culture.
- Three ceramic balls are added to each tube
- Tubes are shaken under the following conditions:
 - 30 seconds 4M/S for weaved tissue handkerchiefs
 - 30 seconds 6M/S for fabrics
- Supernatant is collected

Protocol of recovery of virus from watch glass (smooth nonporous surfaces)

Materials

- Watch glass DURAN 40 mm(Bioblock ref: W09285), washed and degreased (acetone alcohol) and sterilised by autoclave (20 minutes at 121°C)
- Sterile plastic lopps (10 µL)
- Automatic pipettes and cones with filter

Reagents

- Medium for cells culture: MEM + tricine +Penicilline + Streptomycine

Methods

- 50 µL of viral suspension is spotted on the surface of a watch glass
- After drying the viral spot is covered with 500µL of medium for cells culture.
- The spot is scrapped with a plastic loop during 30 to 60 seconds (with horizontal and vertical movements). Medium is sucked up and repulsed three times
- Supernatant is collected.