

Physical Containment 2 standard (PC2) Lab Requirements

PC2 labs must contain features to minimise risk of infection to individuals, community and the environment. The higher PC3 standard is required for mycobacterial (TB) culture work- the only such facility in PNG is within CPHL.

Construction

- Smooth easily cleaned floors, no tiles
- Secure access by authorised personnel only. Lockable when not in use
- Separation of offices from lab space
- Dedicated tearoom and fridge and facilities outside lab for personal items
- Sealed closed windows

Ventilation

- inward flow of air – maintained by forced extraction of laboratory air to minimise aerosol spread
- recirculated air- permitted but not into areas outside the PC2 facility.
- to be filtered to remove airborne particles.
- air not to be directed towards doors or positions that disturb air flow at BSCs.
- special precautions to be noted at ventilation filter system components access points for all maintenance personnel.

Safety

- Class II Safety Cabinet- monitored, regular filter change, serviced.
- PPE provided and storage space for same
- Backflow prevention for water and gas.
- Eyewash station and shower
- Safe chemical storage and handling
- Hand wash sinks
- Sharps disposal

Waste Disposal

- All liquid, solid and sharps waste to be decontaminated and disposed of by relevant authority. Decontamination to be validated.
- Solid waste -High temperature Incineration
- Liquid waste- Autoclave

Reference

- ASNZ Standards 2243.3:2010 Safety in Laboratories (available on request from Colleen)
- Information sheet G_10_Info_8_A Personal Protective Equipment