

**Gonococcal Isolate Surveillance Project**

**OMB 0920-0307**

**Sancta St. Cyr, Project Officer**

**Attachment 3b2**

Control Strain Instructions

## Instructions for Quality Control Assessment - Control Strain Susceptibility Testing

### 1.1 Quality Control assessment

- a) Quality Control strains:
  - i. *N. gonorrhoeae*, strain ATCC 49226 (F-18; Susceptible)
  - ii. *N. gonorrhoeae*, strain WHO L (CMRNG\*, CipHLR, CfxDS\*, CroDS\*)
  - iii. *N. gonorrhoeae*, strain WHO U (AzmNS\*)
  - iv. *N. gonorrhoeae*, strain WHO M ( $\beta$ LacP\*, use for beta-lactamase QC only)  
*\*Abbreviations:  $\beta$ LacP, strain with chromosomally plasmid mediated resistance to penicillin (MICs,  $\geq 2.0$   $\mu$ g/ml); CMRNG, strain with chromosomally mediated resistance to penicillin and tetracycline (MICs,  $\geq 2.0$   $\mu$ g/ml); HLR, high-level resistance, MIC  $\geq 16.0$   $\mu$ g/ml of ciprofloxacin; CfxDS, decreased susceptibility to cefixime (MICs,  $\geq 0.125$   $\mu$ g/ml); CroDS, decreased susceptibility to ceftriaxone (MICs,  $\geq 0.25$   $\mu$ g/ml); AzmNS, nonsusceptible to azithromycin (MICs,  $\geq 2.0$   $\mu$ g/ml).*
- b) The LRRB will provide one copy (frozen; or lyophilized) of each QC strain annually.
- c) AR Lab Network labs are required to propagate and make multiple aliquots of each QC strain upon receiving the isolates.
  - i. MICs of QC strains should be confirmed at the time the frozen stocks are prepared.
  - ii. Make 5 copies/aliquots for each QC strain.
  - iii. QC strains are stored at  $-70$  °C in a solution of trypticase soy broth containing 20% glycerol.
  - iv. QC strains may be stored at  $-70$  °C for up to 2 years.
- d) QC strains propagation
  - i. **Do not use** QC strain that has been passed more than 10 times.
  - ii. **Sub-culture** QC strains from frozen stock every 7-10 days.  
*\*Notes 1: keep the frozen, stock culture(s) on dry-ice (use ice if dry-ice is not available.)*  
*\*Notes 2: work quickly to prevent the frozen, stock culture(s) from thawing.*  
*\*Notes 3: return the frozen, stock culture(s) to the  $-70$  °C immediately.*  
*\*Notes 4: discard the stock culture if it had been pulled from the  $-70$  °C more than 10 times.*
- e) Quality Control schedule
  - i. A QC test is performed each time a new batch of growth medium is made/purchased.
  - ii. A QC test is performed each time new batch of antimicrobial agent is used.
  - iii. A QC test is performed each time clinical isolates are tested, unless an Individualized Quality Control Plan (IQCP) is developed that states otherwise.
  - iv. QC results are recorded on QC form or along with test results.

any other aspect of this collection of information, including suggestions for reducing this burden to CDC/ATSDR Information Collection Review Office, 1600 Clifton Road NE, MS D-74, Atlanta, Georgia 30333; ATTN: PRA (0920-0307).