

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 (β LacP*, use for beta-lactamase QC only)
**Abbreviations: β LacP, strain with chromosomally plasmid mediated resistance to penicillin (MICs, $\geq 2.0 \mu\text{g/ml}$); CMRNG, strain with chromosomally mediated resistance to penicillin and tetracycline (MICs, $\geq 2.0 \mu\text{g/ml}$); HLR, high-level resistance, MIC $\geq 16.0 \mu\text{g/ml}$ of ciprofloxacin; CfxDS, decreased susceptibility to cefixime (MICs, $\geq 0.125 \mu\text{g/ml}$); CroDS, decreased susceptibility to ceftriaxone (MICs, $\geq 0.25 \mu\text{g/ml}$); AzmNS, nonsusceptible to azithromycin (MICs, $\geq 2.0 \mu\text{g/ml}$).*
- 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).