Legionella Reference Center Workflow

Submit clinical specimen(s)

Submit environmental outbreak sample(s) (must have preapproval)

Submit clinical or environmental Legionella isolate(s)

Screening multiplex PCR on specimen

Culture

Subculture & identification (gram-stain & MALDI-TOF)

Confirmatory multiplex PCR on isolate(s)

Report culture results
- No Legionella isolated

Report culture & identification results
- Legionella isolated

Report PCR screen results
- None Detected
- Legionella species detected
- L. pneumophila (not serogroup 1) detected
- L. pneumophila serogroup 1 detected
- Indeterminate

Report culture & identification results
- L. pneumophila (not serogroup 1) detected
- L. pneumophila serogroup 1 detected
- Indeterminate

LRC send PCR-positive, non-culturable L. pneumophila clinical specimens to CDC for further characterization if needed

LRC send isolates to CDC for further characterization if needed

Report confirmatory PCR results
- None Detected
- Legionella species detected
- L. pneumophila (not serogroup 1) detected
- L. pneumophila serogroup 1 detected
- Indeterminate

No Legionella isolated

Report culture results
- L. pneumophila isolated

Indeterminate

No Legionella isolated

Report culture results
- Legionella species detected

Colony count (environmental water samples)

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