A total of eight laboratories were recruited to provide sufficient data for the MIC study. Four media lots (three manufacturers) of cation-adjusted Mueller-Hinton broth (with 2-5% lysed horse blood for testing SPN) or Hinton (MH) broth were evaluated. Ten replicates per test were run for each QC organism generating 320 values for each strain (20 strains X 2 replicates X 5 laboratories). Approximately 25% and 50% of all results were within the proposed QC ranges of 1 – 4 µg/ml. The MIC mode at 0.015 – 0.06 µg/ml.  All of the S. pneumoniae isolates from the three control agents. All control agent MIC values were within CLSI published ranges.

**ABSTRACT**

INTRODUCTION

CEM-101 is a novel macrolide-ketolide to be directed against CA respiratory tract infections and possibly other infections commonly treated with MLSB-ketolide class agents.

MATERIALS AND METHODS

**A. Methods:**

- **ICU, S. pneumoniae ATCC 49619:**
  - Range: 0.008 - 0.03 µg/ml
  - Mode: 0.008 µg/ml

- **S. pneumoniae ATCC 49247:**
  - Range: 0.03 - 0.12 µg/ml
  - Mode: 0.06 µg/ml

- **H. influenzae ATCC 29213:**
  - Range: 0.004 - 0.015 µg/ml
  - Mode: 0.008 µg/ml

- **S. aureus ATCC 29213:**
  - Range: 0.004 - 0.12 µg/ml
  - Mode: 0.06 µg/ml

- **E. faecalis ATCC 29212:**
  - Range: 0.001 - 0.015 µg/ml
  - Mode: 0.004 µg/ml

- **E. faecium ATCC 29216:**
  - Range: 0.004 - 0.03 µg/ml
  - Mode: 0.008 µg/ml

**B. Results:**

- **S. pneumoniae ATCC 49619:**
  - Range: 0.002 – 0.12 µg/ml
  - Mode: 0.03 µg/ml

- **S. pneumoniae ATCC 49247:**
  - Range: 0.0015 – 0.12 µg/ml
  - Mode: 0.005 µg/ml

- **H. influenzae ATCC 29213:**
  - Range: 0.03 – 0.2 µg/ml
  - Mode: 0.01 µg/ml

- **H. influenzae ATCC 29212:**
  - Range: 0.03 – 0.6 µg/ml
  - Mode: 0.06 µg/ml

- **S. aureus ATCC 29213:**
  - Range: 0.03 – 0.12 µg/ml
  - Mode: 0.06 µg/ml

- **E. faecalis ATCC 29212:**
  - Range: 0.004 – 0.03 µg/ml
  - Mode: 0.008 µg/ml

- **E. faecium ATCC 29216:**
  - Range: 0.004 – 0.03 µg/ml
  - Mode: 0.008 µg/ml

**C. CONCLUSIONS:**

- **S. pneumoniae ATCC 49619:**
  - Range: 0.002 – 0.12 µg/ml
  - Mode: 0.03 µg/ml

- **S. pneumoniae ATCC 49247:**
  - Range: 0.0015 – 0.12 µg/ml
  - Mode: 0.005 µg/ml

- **H. influenzae ATCC 29213:**
  - Range: 0.03 – 0.2 µg/ml
  - Mode: 0.01 µg/ml

- **H. influenzae ATCC 29212:**
  - Range: 0.03 – 0.6 µg/ml
  - Mode: 0.06 µg/ml

- **S. aureus ATCC 29213:**
  - Range: 0.03 – 0.12 µg/ml
  - Mode: 0.06 µg/ml

- **E. faecalis ATCC 29212:**
  - Range: 0.004 – 0.03 µg/ml
  - Mode: 0.008 µg/ml

- **E. faecium ATCC 29216:**
  - Range: 0.004 – 0.03 µg/ml
  - Mode: 0.008 µg/ml

**D. SELECTED REFERENCES**

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