Panel 1: MIC Values Against C. difficile UNT103-1

<table>
<thead>
<tr>
<th>Compound</th>
<th>Broccoli Broth Only</th>
<th>Brucella Broth Casal Contents</th>
<th>Fold Shift</th>
</tr>
</thead>
<tbody>
<tr>
<td>Miconazole</td>
<td>4 µg/mL</td>
<td>0.016 µg/mL</td>
<td>250</td>
</tr>
<tr>
<td>Nisin</td>
<td>64 µg/mL</td>
<td>4.8 µg/mL</td>
<td>13.3</td>
</tr>
<tr>
<td>Nisin:1(1:1)</td>
<td>8 µg/mL</td>
<td>1.6 µg/mL</td>
<td>5</td>
</tr>
<tr>
<td>Nisin:1(1:8)</td>
<td>2.16 µg/mL</td>
<td>0.32 µg/mL</td>
<td>6.8</td>
</tr>
<tr>
<td>Vancomycin</td>
<td>1 µg/mL</td>
<td>1 µg/mL</td>
<td>1</td>
</tr>
<tr>
<td>Miconazole+Nisin</td>
<td>0.5 µg/mL</td>
<td>0.25 µg/mL</td>
<td>2</td>
</tr>
</tbody>
</table>

**Methods and Materials**

**Immunocompromised Gnotobiotic Hamster Model**

- The model used was the gnotobiotic hamster model.
- Hamsters were inoculated with a yeast-free C. difficile TCD2012.
- The model was used to determine the MIC of the combination.
- The model was used to determine the efficacy of the treatment.
- The model was used to determine the survival of the animals.
- The model was used to determine the toxicity of the combination.

**Oral Inoculation of C. difficile UNT103-1**

- The model used was the oral inoculation of C. difficile UNT103-1.
- The model was used to determine the MIC of the combination.
- The model was used to determine the efficacy of the treatment.
- The model was used to determine the survival of the animals.
- The model was used to determine the toxicity of the combination.

**Panel 2: Ileal Cannulation of Hamsters**

- The model used was the ileal cannulation of hamsters.
- The model was used to determine the MIC of the combination.
- The model was used to determine the efficacy of the treatment.
- The model was used to determine the survival of the animals.
- The model was used to determine the toxicity of the combination.

**Summary and Conclusions**

- The MIC values for the ratio combinations of miconazole and nisin (1:1), (1:8), and (1:16) were determined.
- The MIC values were found to be 0.016 µg/mL, 1.6 µg/mL, and 0.25 µg/mL, respectively.
- The model was used to determine the MIC of the combination.
- The model was used to determine the efficacy of the treatment.
- The model was used to determine the survival of the animals.
- The model was used to determine the toxicity of the combination.

**References**

2. CDC: Antibiotic-Resistant Threats to the United Stated, 2013. Atlanta, GA, US.
9. Prentice J, Oxfordshire, UK.