Thermo Scientific Sensititre plate setup guide

Non-fastidious Gram negative and Gram positive organisms

1. Pick 3-5 colonies from agar plate and emulsify in 5 mL Thermo Scientific™ Demineralised Water

2. Adjust suspension to 0.5 McFarland equivalent using the Thermo Scientific™ Sensititre™ Nephelometer

3. Standard inoculum: transfer 10 µL to 11 mL Mueller-Hinton broth
   Group Protease: transfer 1 µL to 11 mL Mueller-Hinton broth
   Increased inoculum: transfer 30 µL to 11 mL Mueller-Hinton broth

4. Inoculate the panel with 50 µL per well using the Thermo Scientific™ Sensititre AIM™ Automated Inoculation Delivery System

5. Cover all wells with the adhesive seal. Incubate aerobically at 34-36°C for 18-24 hours*

6. Complete panel set up (steps 1-5) and place into the incubator (step 6) within 30 minutes

To meet your laboratory quality assurance guidelines

Quality control testing
Analyze appropriate quality control organisms with known MIC values (e.g. ATCC strains, available from Thermo Scientific™ Culti-Loops™ product portfolio) to confirm reliable performance of your consumables and workflow.

Colonel count
After inoculating the broth, transfer 100 µL from the remaining broth into a new 11 mL Mueller-Hinton broth. Incubate 100 µL from this dilution onto a non-selective agar plate. Incubate overnight and count the colonies. Expected results should fall into the range of 50-500 colony forming units.

Purity check
Streak 1 µL from the positive control well or remaining broth directly on to a blood agar plate and incubate over night.

Ordering information

<table>
<thead>
<tr>
<th>Product</th>
<th>Quantity</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermo Scientific 0.5 Polymer McFarland Standard</td>
<td>Each</td>
<td>E1041</td>
</tr>
<tr>
<td>Thermo Scientific Doseheads for Sensititre AIM</td>
<td>100/Pack</td>
<td>E3010</td>
</tr>
<tr>
<td>Thermo Scientific Demineralised Water</td>
<td>100 x 5 mL</td>
<td>T3339</td>
</tr>
<tr>
<td>Thermo Scientific Mueller-Hinton Broth</td>
<td>100 x 11 mL</td>
<td>T3462</td>
</tr>
<tr>
<td>Thermo Scientific Culti-Loops for quality control testing</td>
<td>Contact your Thermo Fisher Microbiology representative for options</td>
<td></td>
</tr>
</tbody>
</table>

Find out more at thermofisher.com/sensititre

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