WELL PLATES
FILTER PLATES
CAP MATS & SEALS
Well Plates

Thomson Instrument Company Well Plates represent a cross section of plates for many different needs. We carry plates for sample preparation, assays, cell growth, storage, and other applications. Thomson Instrument Company also offers a variety of sealing and filtering options for all types of applications.

24 Well Plates

<table>
<thead>
<tr>
<th>Part#</th>
<th>Vol. Well</th>
<th>Well Shape</th>
<th>Sterile</th>
<th>ANSI-SLAS</th>
<th>Case/Qty</th>
<th>Works with CapMat/Seal</th>
</tr>
</thead>
<tbody>
<tr>
<td>931565-G-1X</td>
<td>10.4mL</td>
<td></td>
<td>Yes</td>
<td>Yes</td>
<td>20</td>
<td>899410</td>
</tr>
<tr>
<td>931568</td>
<td>10.4mL</td>
<td></td>
<td>Yes</td>
<td>Yes</td>
<td>20</td>
<td>Lid Included</td>
</tr>
<tr>
<td>931569-G-1X</td>
<td>10.8mL</td>
<td></td>
<td>Yes</td>
<td>Yes</td>
<td>20</td>
<td>899410</td>
</tr>
<tr>
<td>931571</td>
<td>10.8mL</td>
<td></td>
<td>Yes</td>
<td>Yes</td>
<td>20</td>
<td>Lid Included</td>
</tr>
</tbody>
</table>
96 Well Screening Protocol for *E. coli* and Other Microbes

**Methods:**
1. Pipette 750µL of bacterial growth media containing the appropriate selective antibiotic into each well of a 96 well plate.
2. Add the selected colony to each well from either an agar plate or glycerol stock.
3. Gently triturate each well manually.
4. Seal plates with the Airporous Seal and transfer to shaker overnight at 850rpm and 37°C.
5. Harvest the plates by centrifugation @ 1000-2500g for 10-20 minutes.
6. Invert the plate to discard the media.
7. Process samples according to downstream application (plasmid purification, protein extraction etc.)

**Notes:**
- 96 well cultures grown in Plasmid+ medium (p/n 446300) typically provide the appropriate biomass for MINI scale plasmid preps.
- The most critical factor in cell viability is aeration. Optimal results will be achieved using shakers with 3mm orbit diameters. We do not recommend working in 96 well format using shakers with standard 25mm or 50mm throws.
- If high levels of evaporation are encountered, the well plate & plastic lid (p/n 931134) is recommended to alleviate the issue.
- Thomson Instrument Company’s filter plates are a great complimentary product for downstream purification applications. Add appropriate resin.
  - 96 Well Filter Plate, 2mL, Long Drip | 25µm Polypropylene: p/n 931919

---

24 Well Growth Protocol for *E. coli* and Other Microbes

**Methods:**
1. Pipette 4-5mL of bacterial growth media containing the appropriate selective antibiotic into each well of a 24 well plate.
2. Add the selected colony to each well from either an agar plate or glycerol stock.
3. Gently triturate each well manually.
4. Seal plates with airporous seals and transfer to shaker overnight at 350-400rpm and 37°C.
5. Harvest the plates by centrifugation @ 1000-2500g for 10-20 minutes.
6. Invert the plate to discard the media.
7. Process samples according to downstream application (plasmid purification, protein extraction etc.)

**Notes:**
- 24 well cultures grown in Plasmid+ medium (p/n 446300) typically provide the appropriate biomass for MIDI scale plasmid preps.
- The most critical factor in cell viability is aeration. Optimal results will be achieved using shakers with 12.5mm (preferred), or 3mm orbit diameters. Cultures grown on shakers with standard 25mm throws will likely need increased rotational speed or decreased culture volume.
- If high levels of evaporation are encountered, use a 24 well plate & plastic lid (p/n 931568) is recommended to alleviate the issue.

---

**Materials:**

**Plate Option:**
- 96 Well Plate, 2mL, Square Well, Round Bottom | Irreversible: p/n 931130
  - Plus: Airporous Seal For Growing Cultures: p/n 899410

**Materials:**

**Plate Options:**
- 24 Well Plate, 10.4mL, Square Well, Round Bottom, Individually Wrapped | Sterile: p/n 931565-G-1X
  - Plus: Airporous Seal for Growing Cultures: p/n 899410
- 24 Well Plate, 10.8mL, Square Well, Pyramid Bottom, Individually Wrapped | Sterile: p/n 931569-G-1X
  - Plus: Airporous Seal for Growing Cultures: p/n 899410
- 24 Well Plate, 10.4mL, Square Well, Round Bottom, Individually Wrapped with Lid | Sterile: p/n 931568
  - Plus: Airporous Seal for Growing Cultures: p/n 899410
- 24 Well Plate, 10.8mL, Square Well, Pyramid Bottom, Individually Wrapped with Lid | Sterile: p/n 931571
Most Commonly Used 96 Well Plates:

- **9356045** – Assays, well volume 500µL, LCMS tested PP
- **931512B** – Well volume 650µL, LCMS tested PP
- **951657** - The best general plates for everything, well volume 2mL, LCMS tested PP
- **931130** – Irreversible, well volume 2mL, LCMS tested PP

For long term storage – We recommend a cap mat over a heat seal, but researchers have to be careful when defrosting. It is best to remove the capmat and replace with heat seal to avoid condensation raining into wells while thawing.

### 96 Well Plates:

<table>
<thead>
<tr>
<th>Part#</th>
<th>Vol. Well</th>
<th>Well Shape</th>
<th>Sterile</th>
<th>ANSI-SLAS</th>
<th>Case/Qty</th>
<th>Works with CapMat/Seal</th>
</tr>
</thead>
<tbody>
<tr>
<td>9356045</td>
<td>500µL</td>
<td>No</td>
<td>*Yes</td>
<td>50</td>
<td></td>
<td>899410</td>
</tr>
<tr>
<td>931512B</td>
<td>650µL</td>
<td>No</td>
<td>Yes</td>
<td>50</td>
<td></td>
<td>899410</td>
</tr>
<tr>
<td>951657</td>
<td>2mL</td>
<td>No</td>
<td>*Yes</td>
<td>50</td>
<td></td>
<td>899410</td>
</tr>
<tr>
<td>931130</td>
<td>2mL</td>
<td>No</td>
<td>Yes</td>
<td>20</td>
<td></td>
<td>899410</td>
</tr>
<tr>
<td>931130-S</td>
<td>2mL</td>
<td>Yes</td>
<td>Yes</td>
<td>20</td>
<td>Lid Included</td>
<td>899410</td>
</tr>
<tr>
<td>931134</td>
<td>2mL</td>
<td>Yes</td>
<td>Yes</td>
<td>20</td>
<td>Lid Included</td>
<td>899410</td>
</tr>
<tr>
<td>931133</td>
<td>2mL</td>
<td>Yes</td>
<td>Yes</td>
<td>20</td>
<td></td>
<td>899410</td>
</tr>
<tr>
<td>931137</td>
<td>2mL</td>
<td>Yes</td>
<td>Yes</td>
<td>20</td>
<td></td>
<td>899410</td>
</tr>
</tbody>
</table>

* Meets ANSI-SLAS plate size dimensions
96 Well Screening Protocol for Mammalian/Insect Cells

Methods:
1. Maintain cell stocks in appropriate growth medium. Split cultures the day before transfection to an appropriate density to ensure log phase growth at the time of transfection.
2. Seed cells at 500uL/well. The optimal seeding density will depend on the cell line, please use cell line recommended density.
3. Transfect cells according to established transfection protocol. Scale transfection reagent/DNA/feeds on a volumetric basis from what is used for larger scale cultures.
4. Seal plates with plastic lids or airporous seals and transfer to shaker overnight at 800rpm and 37°C.
5. Harvest cells at the time point established for larger scale cultures. Pellet cells by centrifugation at 1000-2500g for 10-20min at 4°C.
6. Reserve either the culture media or the pellet depending on the application and proceed to downstream processing.

Notes:
• The most critical factor in cell viability is aeration. Optimal results will be achieved using shakers with 3mm orbit diameters. We do not recommend working in 96 well format using shakers with standard 25mm throws.
• Thomson filter plates are a great complimentary product for downstream purification applications.
  - 96 Well Filter Plate, 2mL, Long Drip | 25µm Polypropylene: p/n 931919
  - Maximum suggested centrifugation: 3000g.

Materials:
- 96 Well Plate, 2mL, Square Well, Round Bottom, Individually Wrapped with Lid | Sterile: p/n 931568
- 96 Well Plate, 2mL, Square Well, Pyramid Bottom, Sterile, Individually Wrapped p/n 91133

24 Well Screening Protocol for Mammalian/Insect Cells

Methods:
1. Maintain cell stocks in appropriate growth media. Split cultures the day before transfection to an appropriate density to ensure log phase growth at the time of transfection.
2. Seed cells at 4-5mL/well. The optimal seeding density will depend on the cell line, please use cell line recommended density.
3. Transfect cells according to established transfection protocol. Scale transfection reagent/DNA/feeds on a volumetric basis from what is used for larger scale cultures.
4. Cover plates with plastic lids and transfer to shaker overnight at 350rpm and 37°C.
5. Harvest cells at the time point established for larger scale cultures. Pellet cells by centrifugation at 1000-2500g for 10-20min at 4°C.
6. Reserve either the culture media or the pellet depending on the application and proceed to downstream processing.

Notes:
• The most critical factor in cell viability is aeration. Optimal results will be achieved using shakers with 12.5mm, or even 3mm orbit diameters. Cultures grown on shakers with standard 25mm throws, will likely need increased rotational speed or decreased culture volume.
• Thomson Instrument Company’s filter plates are a great complimentary product for downstream purification applications. Add appropriate resin.
  - 24 Well Filter Plate, 10.8mL, Long Drip | 25µm Polypropylene: p/n 921550

Materials:
- 24 Well Plate, 10.4mL, Square Well, Round Bottom, Individually Wrapped with Lid | Sterile: p/n 931568
- 24 Well Plate, 10.8mL, Square Well, Pyramid Bottom. Sterile, Individually Wrapped p/n 931571

htslabs.com | info@htslabs.com | 800 541.4792 | 760 757.8080
# 24 Well Filter Plates

<table>
<thead>
<tr>
<th>Part#</th>
<th>Well #</th>
<th>Vol.</th>
<th>Well Tube Shape</th>
<th>Sterile</th>
<th>ANSI-SLAS</th>
<th>Case/Qty</th>
<th>Filter Membrane</th>
<th>Collection Plate</th>
</tr>
</thead>
<tbody>
<tr>
<td>921550</td>
<td>24</td>
<td>10.8mL</td>
<td>No</td>
<td>Yes</td>
<td>20</td>
<td>25µm Polypropylene</td>
<td>931565-G-1X</td>
<td>24 Well Plate, 10.4mL, Square Well, Round Bottom, Individually Wrapped</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>931568</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>931569-G-1X</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>931571</td>
</tr>
</tbody>
</table>

# 96 Well Filter Plates

<table>
<thead>
<tr>
<th>Part#</th>
<th>Well #</th>
<th>Vol.</th>
<th>Well Tube Shape</th>
<th>Sterile</th>
<th>ANSI-SLAS</th>
<th>Case/Qty</th>
<th>Filter Membrane</th>
<th>Collection Plate</th>
</tr>
</thead>
<tbody>
<tr>
<td>921746</td>
<td>96</td>
<td>2mL</td>
<td>Yes</td>
<td>Yes</td>
<td>20</td>
<td>0.2µm Rapid Clear</td>
<td>931130</td>
<td></td>
</tr>
<tr>
<td>931919</td>
<td>96</td>
<td>2mL</td>
<td>No</td>
<td>Yes</td>
<td>25</td>
<td>25µm Polypropylene</td>
<td>931130</td>
<td></td>
</tr>
</tbody>
</table>

# Vacuum Manifold

<table>
<thead>
<tr>
<th>Part#</th>
<th>Well #</th>
<th>Vol.</th>
<th>Tube Shape</th>
<th>Sterile</th>
<th>ANSI-SLAS</th>
<th>Case/Qty</th>
<th>Filter Membrane</th>
<th>Filter Plate</th>
</tr>
</thead>
<tbody>
<tr>
<td>981802</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>No</td>
<td>Yes</td>
<td>1</td>
<td>n/a</td>
<td>931919, 921550, Any standard filter plate</td>
</tr>
</tbody>
</table>
Well Plate Accessories

Thomson offers a variety of sealing solutions for the well plates. Our sealing mats are designed to make research easier for you. Our Cap Mats are piercible for autosampler applications for your convenience or solid for protection during long-term storage.

Seals/Mats

<table>
<thead>
<tr>
<th>Part#</th>
<th>Description</th>
<th>Sterile</th>
<th>Case/Qty</th>
<th>Use With</th>
</tr>
</thead>
<tbody>
<tr>
<td>359747</td>
<td>96 Well Capmat, For Wide Round Wells</td>
<td>No</td>
<td>50</td>
<td>951657, 9356045</td>
</tr>
<tr>
<td>A210100</td>
<td>96 Well Capmat, For Square Wells</td>
<td>No</td>
<td>100</td>
<td>931130, 91133</td>
</tr>
<tr>
<td>899405-1</td>
<td>Adhesive Foil Plate Seal</td>
<td>No</td>
<td>100</td>
<td>All Plates</td>
</tr>
<tr>
<td>899403</td>
<td>Pierceable Foil Heat Seal</td>
<td>No</td>
<td>100</td>
<td>All Plates</td>
</tr>
<tr>
<td>899406</td>
<td>Long Term Storage Foil Heat Seal</td>
<td>No</td>
<td>100</td>
<td>All Plates</td>
</tr>
<tr>
<td>899410</td>
<td>Airporous Plate Seal For Growing Cultures</td>
<td>Yes</td>
<td>100</td>
<td>All Plates</td>
</tr>
<tr>
<td>981945</td>
<td>Well Plate Lid for use with 96 &amp; 24 Well Plates</td>
<td>No</td>
<td>100</td>
<td>All Plates</td>
</tr>
<tr>
<td>981948</td>
<td>Well Plate Lid for use with 96 &amp; 24 Well Plates</td>
<td>Yes</td>
<td>100</td>
<td>All Plates</td>
</tr>
</tbody>
</table>