Advanced shaking solutions
for Cytomat 2 C-LiN series automated incubators and storage systems

The Thermo Scientific™ Cytomat™ 2 automated incubator with Tower Shaker is the only solution that provides true orbital shaking. It is ideal for applications requiring sample agitation and cells that need to be kept in suspension.

The synchronized dual magnetic drive system (located at the bottom and top) ensures consistent shaking amplitude across all microplates without having any influence of load, position or number of plates.

The graph shows optimum bacterial growth with the dual magnetic drive system across all plates (red line; standard deviation 2.7%). In comparison, the technology with only bottom drive shaking reveals inconsistent actual growth (standard deviation 10.1%).

Bacterial growth consistency over the entire two Stacker (bottom to top) of the Tower Shaking option

Key Applications
- Cell Culture (Mammalian)
- Microbial Culture
- Genomics
- Biologics
- Luminex (ELISA, Biomarkers)
- Synthetic Biology

Markets
- Drug Discovery
- Biopharmaceuticals
- Life Science Research
- Diagnostics
Tower shaker features

- Easy 3 step setup of Tower Shaker Stacker:
  Install/secure by lock screw/Plug-in

- Active microplate clamp mechanism secures plate and lid separately; no abrasions of the microplates during shaking

- Mix and match standard and Tower Shaker stacker for maximum flexibility for assay adoption

- Inductive wear-free driving mechanism allows for no-particle emission or belts to change

- Superior shaking technology with individual speed settings of each Tower Shaker from 100 to 1200 rpm with oscillating amplitude of 3 mm (2 mm option available) offers a wide range of application setups

Ordering information

Cytomat series

<table>
<thead>
<tr>
<th>Product</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cytomat 2 C450-LiN, 230 V</td>
<td>51033037</td>
</tr>
<tr>
<td>Cytomat 2 C450-LiN, 120 V</td>
<td>51033036</td>
</tr>
<tr>
<td>Cytomat 2 C450-LiN, 100 V</td>
<td>51033035</td>
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</table>

Shaking options (100–1200 rpm, orbital shaking with a max. load of 850 g per position)

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tower Shaker (Pitch 23)</td>
<td>capacity 16 microplates, 1 mm amplitude (2 mm oscillation amplitude)</td>
<td>50107700</td>
</tr>
<tr>
<td>Tower Shaker (Pitch 27)</td>
<td>capacity 13 microplates, 1 mm amplitude (2 mm oscillation amplitude)</td>
<td>50122160</td>
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<tr>
<td>Tower Shaker (Pitch 50)</td>
<td>capacity 7 microplates, 1 mm amplitude (2 mm oscillation amplitude)</td>
<td>5018421</td>
</tr>
<tr>
<td>Tower Shaker (3 mm, Pitch 23)</td>
<td>capacity 16 microplates, 1.5 mm amplitude (3 mm oscillation amplitude)</td>
<td>50129388</td>
</tr>
<tr>
<td>Tower Shaker (3 mm, Pitch 27)</td>
<td>capacity 13 microplates, 1.5 mm amplitude (3 mm oscillation amplitude)</td>
<td>50138322</td>
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<tr>
<td>Tower Shaker (3 mm, Pitch 50)</td>
<td>capacity 7 microplates, 1.5 mm amplitude (3 mm oscillation amplitude)</td>
<td>50146206</td>
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<tr>
<td>Tower Shaker (Pitch 33)</td>
<td>capacity 11 microplates, 1 mm amplitude (2 mm oscillation amplitude)</td>
<td>50127680</td>
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<tr>
<td>Tower Shaker (Pitch 40)</td>
<td>capacity 9 microplates, 1 mm amplitude (2 mm oscillation amplitude)</td>
<td>50133660</td>
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<tr>
<td>Tower Shaker (Pitch 60)</td>
<td>capacity 6 microplates, 1 mm amplitude (2 mm oscillation amplitude)</td>
<td>50126934</td>
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</table>

Options for Cytomat 2 C450/C470-LiN

<table>
<thead>
<tr>
<th>Options</th>
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<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shaking control ToS—C2 (required to control Tower Shaker Stacker)</td>
<td>Shaking Control for two ToS-Tower Shaker; Relative Humidity: constant, up to 80% RH @ 37 °C</td>
<td>51901303</td>
</tr>
<tr>
<td>O₂-control (1–21 Vol%)</td>
<td>O₂ control to minimize oxygen level with N₂ supply, 1–21 Vol%</td>
<td>51900965</td>
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<tr>
<td>O₂-control (5–90 Vol%)</td>
<td>O₂ control to enrich oxygen level with O₂ supply, 5–90 Vol%</td>
<td>51901082</td>
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<tr>
<td>APS - Air Purging System</td>
<td>CO₂ reduction during cell growth down to 1% by Oxygen enrichment</td>
<td>51901295</td>
</tr>
<tr>
<td>GDF (H₂O₂) - Glass Door Flanges</td>
<td>Connection flanges 1&quot; in glass door for H₂O₂ disinfection</td>
<td>51901083</td>
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<tr>
<td>Gate Position B2</td>
<td>Gate Rear Top (seen from robot side)</td>
<td>51900951</td>
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<tr>
<td>Gate Position R1</td>
<td>Gate Right Side Bottom (seen from robot side)</td>
<td>51900954</td>
</tr>
<tr>
<td>Gate Position R2</td>
<td>Gate Right Side Top (seen from robot side)</td>
<td>51900955</td>
</tr>
<tr>
<td>Gate Position L1</td>
<td>Gate Left Side Bottom (seen from robot side)</td>
<td>51900958</td>
</tr>
<tr>
<td>Gate Position L2</td>
<td>Gate Left Side Top (seen from robot side)</td>
<td>51900959</td>
</tr>
<tr>
<td>CBL—Control Box Left</td>
<td>Control Box Left side</td>
<td>51901298</td>
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<tr>
<td>DL—Door Left</td>
<td>Door left hinged</td>
<td>51901171</td>
</tr>
<tr>
<td>Copper Inner Chamber</td>
<td>Inner Chamber made of copper</td>
<td>51901084</td>
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</tbody>
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