**Multidrop dispensing cassettes**

**Standard tube dispensing cassettes**

Standard tube dispensing cassettes are designed to be used with Thermo Scientific™ Multidrop™ Combi+, Multidrop™ Combi, Multidrop™ 384, and Multidrop™ DW Reagent Dispensers.

**Details**
- Plastic covers, 40 cm silicone tubing, and polypropylene tip combs with 0.5 mm diameter tips
- Designed to dispense volumes of 5 µL–2.5 mL
- Most suitable for dispensing volumes of 20 µL or more
- Wide tubing (1.3 mm diameter) allows high-speed dispensing of large volumes
- Cassettes with 200 cm long tubing are also available when there is a greater distance between the reagent container and instrument, making these ideal for automated systems

**Small tube dispensing cassettes**

Small tube dispensing cassettes can be used with Multidrop Combi+ and Multidrop Combi dispensers.

**Details**
- Plastic covers, 40 cm silicone tubing (0.5 mm diameter), and polypropylene or metal tips with 0.22 mm orifices
- Designed to dispense volumes of 0.5–50 µL
- Available with either plastic or metal tips to accommodate a variety of reagents
- Cassettes with 200 cm long tubing are also available when there is a greater distance between the reagent container and instrument, making these ideal for automated systems

**Multidrop Combi SMART+ dispensing cassettes**

Thermo Scientific™ Multidrop™ Combi SMART+ dispensing cassettes are designed for use with Multidrop™ Combi SMART+ dispensers.

**Details**
- Equipped with radio frequency identification (RFID) tags to store lifetime dispensing data; when used with a Multidrop Combi SMART+ dispenser, displays the remaining number of usage cycles
- Plastic covers, 40 cm silicone tubing, and polypropylene tip combs with 0.5 mm diameter tips
- Designed to dispense volumes of 0.5 µL–2.5 mL
- Available with either plastic or metal tips to accommodate a variety of reagents
- Cassettes with 200 cm long tubing are also available when there is a greater distance between the reagent container and instrument, making these ideal for automated systems
Multidrop dispensing cassettes

The comprehensive line of Thermo Scientific™ Multidrop™ dispensing cassettes offers optimal solutions for dispensing a wide range of volumes and reagents for excellent performance and results.

Autoclavable Multidrop dispensing cassettes are available with different tip materials, tubing dimensions, and tip sizes. Choose standard tube and small tube cassettes or cassettes for Multidrop Combi SMART, SMART 2, and SMART+ dispensers that store dispensing data. Dispensing cassettes are available as individual units or in 5-packs and 10-packs for various throughputs.

<table>
<thead>
<tr>
<th>Description</th>
<th>Cat. No.</th>
<th>Multidrop Combi</th>
<th>Multidrop Combi SMART+</th>
<th>Multidrop Combi SMART</th>
<th>Multidrop-384</th>
<th>Multidrop SMART+</th>
<th>Dispensing range*</th>
<th>Read volume</th>
<th>Autoclavability</th>
<th>Tubing material/inner diameter</th>
<th>Tip material/inner diameter</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard tube dispensing cassette</td>
<td>24072670</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>0.5–5 µL</td>
<td>&lt;7 mL</td>
<td>50 times</td>
<td>Silicone/1.3 mm</td>
<td>PP/0.5 mm</td>
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<tr>
<td>Standard tube dispensing cassette 5-pack</td>
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<td>0.5–5 µL</td>
<td>&lt;7 mL</td>
<td>50 times</td>
<td>Silicone/1.3 mm</td>
<td>PP/0.5 mm</td>
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<td>Standard tube dispensing cassette 10-pack</td>
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<td>0.5–5 µL</td>
<td>&lt;7 mL</td>
<td>50 times</td>
<td>Silicone/1.3 mm</td>
<td>PP/0.5 mm</td>
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<tr>
<td>Long standard tube dispensing cassette (200 cm)</td>
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<td>•</td>
<td>•</td>
<td>•</td>
<td>0.5–5 µL</td>
<td>&lt;14 mL</td>
<td>50 times</td>
<td>Silicone/1.3 mm</td>
<td>PP/0.5 mm</td>
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<tr>
<td>Small tube plastic tip dispensing cassette</td>
<td>24073290</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>0.5–5 µL</td>
<td>&lt;1 mL</td>
<td>10 times</td>
<td>Silicone/0.5 mm</td>
<td>PP/0.22 mm</td>
<td></td>
</tr>
<tr>
<td>Small tube plastic tip dispensing cassette 5-pack</td>
<td>24073291</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>0.5–5 µL</td>
<td>&lt;1 mL</td>
<td>10 times</td>
<td>Silicone/0.5 mm</td>
<td>PP/0.22 mm</td>
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<tr>
<td>Small tube metal tip dispensing cassette</td>
<td>24073295</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>0.5–5 µL</td>
<td>&lt;1 mL</td>
<td>10 times</td>
<td>Stainless steel, ruby/0.22 mm</td>
<td>Stainless steel tip</td>
<td></td>
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<tr>
<td>Small tube metal tip dispensing cassette 5-pack</td>
<td>24073296</td>
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<td>•</td>
<td>•</td>
<td>0.5–5 µL</td>
<td>&lt;1 mL</td>
<td>10 times</td>
<td>Stainless steel, ruby/0.22 mm</td>
<td>Stainless steel tip</td>
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<tr>
<td>Long small tube plastic tip dispensing cassette (200 cm)</td>
<td>24073293</td>
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<td>0.5–5 µL</td>
<td>&lt;3 mL</td>
<td>10 times</td>
<td>Silicone/0.5 mm</td>
<td>PP/0.22 mm</td>
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<tr>
<td>Long small tube metal tip dispensing cassette (200 cm)</td>
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<td>•</td>
<td>•</td>
<td>•</td>
<td>0.5–5 µL</td>
<td>&lt;3 mL</td>
<td>10 times</td>
<td>Stainless steel, ruby/0.22 mm</td>
<td>Stainless steel tip</td>
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<td>SMART+ dispensing cassettes for Multidrop Combi SMART+ instrument with serial numbers 836-8C0001SM onwards</td>
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<td>SMART+ small tube plastic tip dispensing cassette</td>
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<td>0.5–5 µL</td>
<td>&lt;1 mL</td>
<td>10 times</td>
<td>Silicone/0.5 mm</td>
<td>PP/0.22 mm</td>
<td></td>
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<tr>
<td>SMART+ small tube metal tip dispensing cassette</td>
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<td>0.5–5 µL</td>
<td>&lt;1 mL</td>
<td>10 times</td>
<td>Stainless steel, ruby/0.22 mm</td>
<td>Stainless steel tip</td>
<td></td>
</tr>
<tr>
<td>SMART+ standard tube dispensing cassette</td>
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<td>•</td>
<td>•</td>
<td>0.5–5 µL</td>
<td>&lt;1 mL</td>
<td>10 times</td>
<td>Silicone/1.3 mm</td>
<td>PP/0.5 mm</td>
<td></td>
</tr>
<tr>
<td>SMART+ long standard tube dispensing cassette (200 cm)</td>
<td>N21726</td>
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<td>•</td>
<td>•</td>
<td>0.5–5 µL</td>
<td>&lt;1 mL</td>
<td>10 times</td>
<td>Silicone/1.3 mm</td>
<td>PP/0.5 mm</td>
<td></td>
</tr>
<tr>
<td>Tubing set for standard tube dispensing cassette (60 cm)</td>
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<td>•</td>
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<td>•</td>
<td>0.5–5 µL</td>
<td>&lt;1 mL</td>
<td>50 times</td>
<td>Silicone/1.3 mm</td>
<td>PP/0.5 mm</td>
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<tr>
<td>Long tubing set for standard tube dispensing cassette (60 cm)</td>
<td>24070297</td>
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<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>0.5–5 µL</td>
<td>&lt;1 mL</td>
<td>50 times</td>
<td>Silicone/1.3 mm</td>
<td>PP/0.5 mm</td>
<td>Includes tip comb</td>
</tr>
</tbody>
</table>

* Depends on the instrument used.

24072670 Standard tube dispensing cassette
24072677 Long standard tube dispensing cassette
24073290 Small tube plastic tip dispensing cassette
24070297 Long tubing set for standard tube dispensing cassette
24072678 SMART small tube metal tip dispensing cassette
24073295 Small tube metal tip dispensing cassette
24073293 Long small tube plastic tip dispensing cassette
24072675 SMART long standard tube dispensing cassette
24073292 Small tube metal tip dispensing cassette
24073298 Long small tube metal tip dispensing cassette
24073297 SMART standard tube dispensing cassette
24073291 Long standard tube plastic tip dispensing cassette
24073290 Small tube plastic tip dispensing cassette
24072679 SMART long standard tube dispensing cassette
24073296 Small tube metal tip dispensing cassette
24073299 Long small tube plastic tip dispensing cassette
24072676 SMART small tube metal tip dispensing cassette
24073291 Long small tube metal tip dispensing cassette
24073298 SMART standard tube dispensing cassette
24073290 SMART small tube plastic tip dispensing cassette
Tubing sets
Tubing sets that are compatible with standard tube dispensing cassettes are an economical choice. These sets require opening the cassette cover and calibrating prior to use. Long tubing sets are ideal for use with automated systems.

Best practices for cassette maintenance
- Clean each dispensing cassette daily after use. Wash by dispensing ddH₂O through the tubing—use a minimum of 20 mL ddH₂O to clean standard tube cassettes, or a minimum of 10 mL to clean small tube cassettes. Be sure to wash all tubing completely.
- If cleaning with water alone is not sufficient, use a Tween™ or Triton™ X-100 detergent solution or 1% Micro-90™ cleaning solution. Follow by flushing with a large amount of ddH₂O, and then empty the tubing.
- After washing, allow the cassette to dry at room temperature and store it in the resting position.

Caution: When dispensing proteins, wash with ddH₂O before ethanol to avoid precipitation.

Multidrop Combi+ dispenser
The Multidrop Combi+ Reagent Dispenser offers ultimate flexibility for reagent dispensing. Multidrop Combi SMART+ dispensers have an advanced built-in cassette lifetime tracking system.

Learn more at thermofisher.com/multidrop