



Liquid dispensing

## 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  $\mu$ L–2.5 mL
- Most suitable for dispensing volumes of 20  $\mu$ L 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  $\mu$ L

- 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.

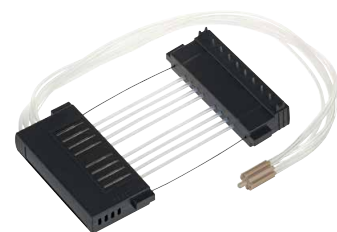
#### Details

- 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  $\mu$ L–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.

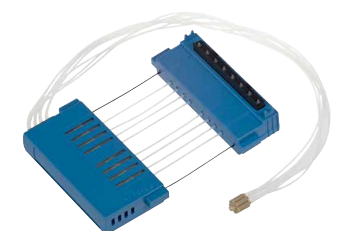
Autoclavable Multidrop dispensing cassettes are available with different tip materials, tubing dimensions, and tip sizes. Choose standard tube and small tube cassettes or cassettes for Multidrop Combi SMART, SMART 2, and SMART+ dispensers that store dispensing data. Dispensing cassettes are available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



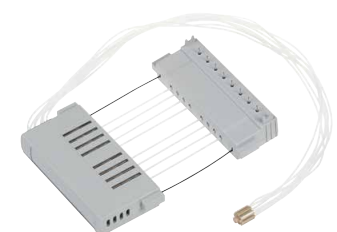
**24072670**  
Standard tube dispensing cassette



**24072677**  
Long standard tube dispensing cassette



**24073290**  
Small tube plastic tip dispensing cassette



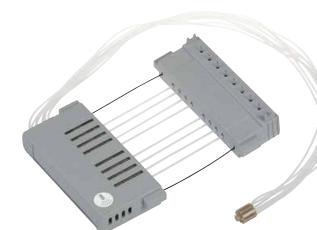
**24073295**  
Small tube metal tip dispensing cassette



**24070297**  
Long tubing set for standard tube dispensing cassette



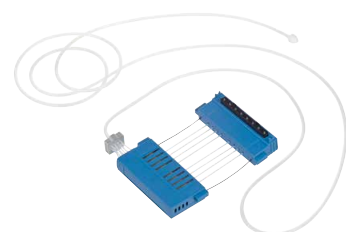
**24070290**  
Tubing set for standard tube dispensing cassette



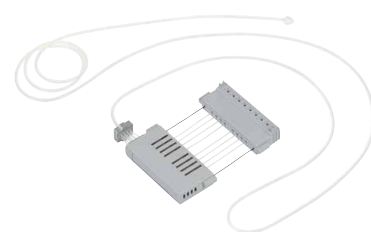
**24073297/N15135**  
SMART small tube metal tip dispensing cassette



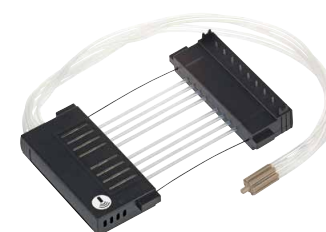
**24072678/N15139**  
SMART long standard tube dispensing cassette



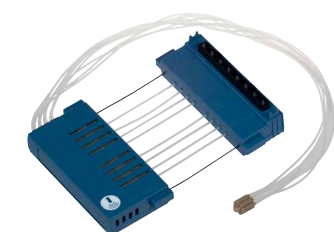
**24073293**  
Long small tube plastic tip dispensing cassette



**24073298**  
Long small tube metal tip dispensing cassette



**24072675/N15137**  
SMART standard tube dispensing cassette



**24073292/N15133**  
SMART small tube plastic tip dispensing cassette

Description	Cat. No.								Parameters					
		Multidrop Combi+	Multidrop Combi SMART+	Multidrop Combi	Multidrop Combi SMART 2	Multidrop Combi SMART	Multidrop 384	Multidrop DW	Dispensing range*	Dead volume	Autoclavability	Tubing material/ inner diameter	Tip material/ inner diameter	Notes
Standard tube dispensing cassette	24072670	•	•	•	•	•	•	•	5–2,500 µL	<7 mL	50 times	Silicone/1.3 mm	PP/0.5 mm	
Standard tube dispensing cassette 5-pack	24072671	•	•	•	•	•	•	•	5–2,500 µL	<7 mL	50 times	Silicone/1.3 mm	PP/0.5 mm	
Standard tube dispensing cassette 10-pack	24072672	•	•	•	•	•	•	•	5–2,500 µL	<7 mL	50 times	Silicone/1.3 mm	PP/0.5 mm	
Long standard tube dispensing cassette (200 cm)	24072677	•	•	•	•	•	•	•	5–2,500 µL	<24 mL	50 times	Silicone/1.3 mm	PP/0.5 mm	
Small tube plastic tip dispensing cassette	24073290	•	•	•	•	•			0.5–50 µL	<1 mL	10 times	Silicone/0.5 mm	PP/0.22 mm	
Small tube plastic tip dispensing cassette 5-pack	24073291	•	•	•	•	•			0.5–50 µL	<1 mL	10 times	Silicone/0.5 mm	PP/0.22 mm	
Small tube metal tip dispensing cassette	24073295	•	•	•	•	•			0.5–50 µL	<1 mL	10 times	Silicone/0.5 mm	Stainless steel, ruby/0.22 mm	Stainless steel tip
Small tube metal tip dispensing cassette 5-pack	24073296	•	•	•	•	•			0.5–50 µL	<1 mL	10 times	Silicone/0.5 mm	Stainless steel, ruby/0.22 mm	Stainless steel tip
Long small tube plastic tip dispensing cassette (200 cm)	24073293	•	•	•	•	•			0.5–50 µL	<5 mL	10 times	Silicone/0.5 mm	PP/0.22 mm	Manifold structure
Long small tube metal tip dispensing cassette (200 cm)	24073298	•	•	•	•	•			0.5–50 µL	<5 mL	10 times	Silicone/0.5 mm	Stainless steel, ruby/0.22 mm	Stainless steel tip
SMART+ dispensing cassettes for Multidrop Combi SMART+ instrument with serial numbers 836-8C0001SM onwards														
SMART+ small tube plastic tip dispensing cassette	N22700		•						0.5–50 µL	<1 mL	10 times	Silicone/0.5 mm	PP/0.22 mm	
SMART+ small tube metal tip dispensing cassette	N22702		•						0.5–50 µL	<1 mL	10 times	Silicone/0.5 mm	Stainless steel, ruby/0.22 mm	Stainless steel tip
SMART+ standard tube dispensing cassette	N22704		•						5–2,500 µL	<7 mL	50 times	Silicone/1.3 mm	PP/0.5 mm	
SMART+ long standard tube dispensing cassette (200 cm)	N22706		•						5–2,500 µL	<7 mL	50 times	Silicone/1.3 mm	PP/0.5 mm	
Tubing set for standard tube dispensing cassette (40 cm)	24070290	•	•	•	•	•	•	•	5–2,500 µL	<7 mL	50 times	Silicone/1.3 mm	PP/0.5 mm	Includes tip comb
Long tubing set for standard tube cassette (200 cm)	24070297	•	•	•	•	•	•	•	5–2,500 µL	<24 mL	50 times	Silicone/1.3 mm	PP/0.5 mm	Includes tip comb

\* Depends on the instrument used.

### 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 ddH<sub>2</sub>O through the tubing—use a minimum of 20 mL ddH<sub>2</sub>O 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 ddH<sub>2</sub>O, 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 ddH<sub>2</sub>O 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](https://thermofisher.com/multidrop)

**thermo** scientific