

# THERMO SCIENTIFIC MULTIDROP DISPENSING CASSETTES

## Standard tube dispensing cassette

Standard tube dispensing cassettes are designed to be used with the Multidrop Combi, Multidrop 384 and Multidrop DW dispensers.

### Details:

- Plastic cover structure, wide silicone tubing and polypropylene tip comb with 0.5 mm tip inner diameter
- Designed for volumes 5 µL and greater, and when used with Multidrop Combi dispenser up to 2.5 mL
- Most suitable for dispensing volumes of 20 µL and greater
- Wide tubing allows high speed for dispensing of large volumes
- Standard tube cassettes are also available with longer tubing versions, ideal for automated systems where reagent vessels are remote from the instruments
- The user definable tubing length from 50 cm to 200 cm allows adjustment just according to system

## Small tube dispensing cassette

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

### Details:

- Plastic cover structure, silicone tubing with small tubing diameter and polypropylene or metal tip with orifice 0.22 mm
- Tip structure and design optimized for efficient and reproducible dispensing of small volumes from 0.5 µL up to 50 µL
- Small tube dispensing cassettes are available with either plastic or metal tips to accommodate a variety of reagents
- Long small tube cassettes are ideally suited for use with automated systems. The eight channels are joined as single tube, minimizing liquid resistance

## SMART dispensing cassettes

SMART dispensing cassettes are used with the Multidrop Combi SMART dispenser. These cassettes are equipped with a SMART information chip to store lifetime dispensing data for the cassette. When used with Multidrop Combi SMART dispenser, the remaining usage time is displayed. SMART cassettes are available in standard and small tube versions and are distinguished from normal cassettes by an antenna tag.

### Tubing sets

Compatible with standard tube dispensing cassettes, tubing sets are an economical choice. These sets require opening the cassette cover and calibrating prior to use. Long tubing versions are ideal for use with automated systems.

### Cassette Maintenance – Best Practices

- Clean the dispensing cassette daily after use. Wash by dispensing ddH<sub>2</sub>O through the tubings. Be sure to wash all tubings completely.
- Standard tube cassettes: use min. 20 ml ddH<sub>2</sub>O
- Small tube cassettes: use min. 10 ml of ddH<sub>2</sub>O
- If cleaning with water is not sufficient, use a mild laboratory detergent (e.g. TWEEN® or Triton™ X-100) or a cleaning solution (e.g. 1% Micro-90® Cleaning Solution from Cole-Parmer).
- Then dispense with a large amount of ddH<sub>2</sub>O. Empty the tubings.
- After washing, store the dispensing cassette in the rest position and dry at room temperature.

Caution! When dispensing proteins, wash first with ddH<sub>2</sub>O before ethanol to avoid precipitation.

## Multidrop microplate dispensers



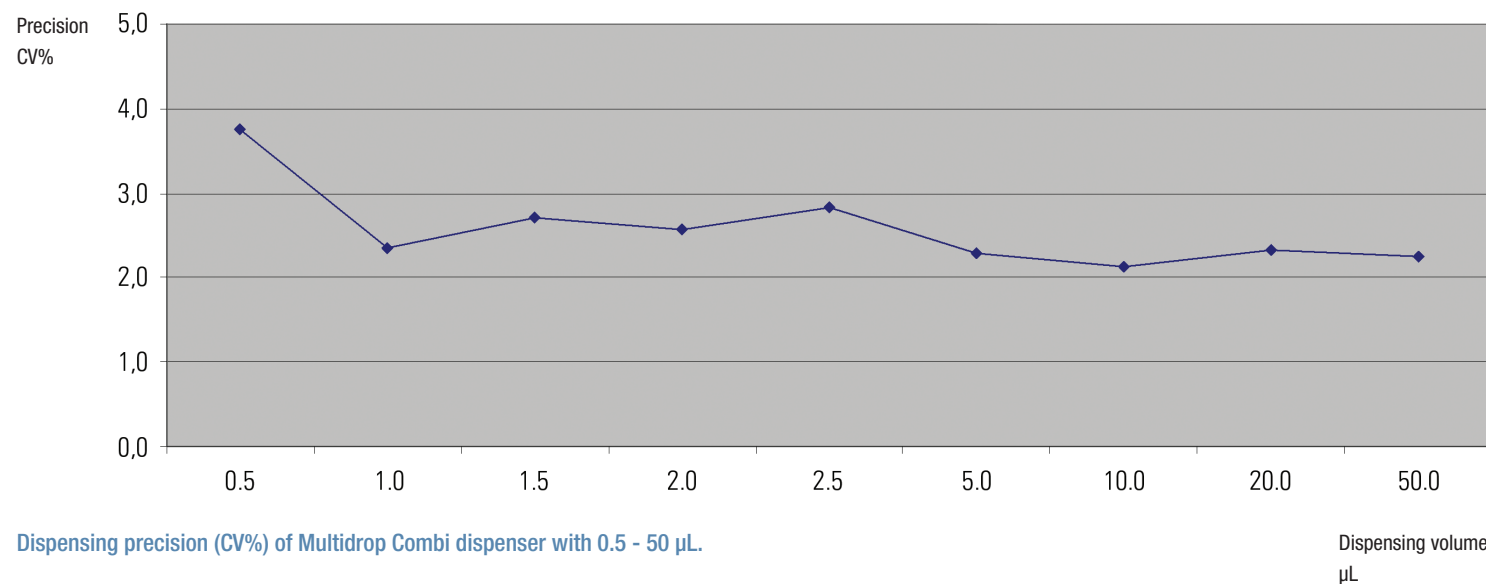
Multidrop Combi dispenser offers the ultimate flexibility for reagent dispensing. The SMART version of Multidrop Combi provides an advanced built-in cassette lifetime tracking system.



Multidrop 384 dispenser is extremely user-friendly; simply select the plate and volume and you are ready to start filling 96- and 384-well plates.



Multidrop DW dispenser is specially designed for dispensing into DW plates.



Dispensing precision (CV%) of Multidrop Combi dispenser with 0.5 - 50 µL.

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[www.thermoscientific.com/multidrop](http://www.thermoscientific.com/multidrop)

**For all other instruments please contact these locations.**

**North America:** USA/Canada 800 345 0206 or 800 522 7763 3

**Europe:** Austria +43 1 801 40 0, Belgium +32 53 73 42 41, France +33 2 2803 2180, Germany national toll free 08001-536 376, Germany international +49 6184 90 6000, Italy +39 02 02 95059 552, Netherlands +31 76 571 4440, Nordic/Baltic countries +358 9 329 100, Russia/CIS +7 (495) 739 76 41, Spain/Portugal +34 93 223 09 18, Switzerland +41 44 454 12 12, UK/Ireland +44 870 609 9203 or 44 (0) 161 486 2110

**Asia:** China +86 21 6865 4588 or +86 10 8419 3588, India toll free 1800 22 8374, India +91 22 6716 2200, Japan +81 45 453 9220, Other Asian countries +852 2885 4613  
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Thermo Scientific  
Multidrop Dispensing  
Cassettes

## Dispensing Cassette Selection Guide

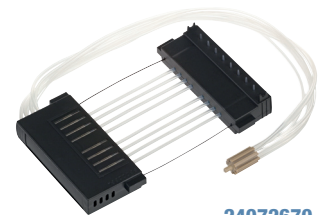
**Thermo**  
SCIENTIFIC

The comprehensive line of Thermo Scientific Multidrop dispensing cassettes offers optimal solutions for a wide volume range and a variety of reagents for the best performance and results.

The autoclavable Multidrop® dispensing cassettes come with different tubing size, and tip material and size. Choose between standard and small tube cassettes, or SMART versions of these which store dispensing lifetime data. Dispensing cassettes are available as single versions, 5-packs and 10-packs for different throughput needs.

Cat. No.	Description	Compatibility					Dispensing range*	Dead volume	Autoclavability (121 °C, 1 bar, 20 min)	Tubing material/ inner Ø	Tip material/ inner Ø	Note
		Multidrop Combi	Multidrop Combi SMART	Multidrop 384	Multidrop DW	Multidrop Micro						
<b>STANDARD TUBE DISPENSING CASSETTES</b>												
24072670	Standard tube dispensing cassette	x		x	x		5-2500 µl	<7 ml	50 times	Silicone/1.3mm	PP/0.5 mm	
24072671	Standard tube dispensing cassette 5-pack	x		x	x		5-2500 µl	<7 ml	50 times	Silicone/1.3mm	PP/0.5 mm	
24072672	Standard tube dispensing cassette 10-pack	x		x	x		5-2500 µl	<7 ml	50 times	Silicone/1.3mm	PP/0.5 mm	
24072677	Long standard tube dispensing cassette (length of tubing 50-200 cm in 10 cm increments)	x		x	x		5-2500 µl	<24 ml	50 times	Silicone/1.3mm	PP/0.5 mm	
24070300	Dispensing cassette, aluminium covers (with 40 cm tubing set)			x	x		5-995 µl	<7 ml	50 times	Silicone/1.3mm	PP/0.5 mm	
24070307	Special dispensing cassette, aluminium covers (length of tubing 50-200 cm in 10 cm increments)			x	x		5-995 µl	<24 ml	50 times	Silicone/1.3mm	PP/0.5 mm	
<b>SMALL TUBE DISPENSING CASSETTES</b>												
24073290	Small tube plastic tips dispensing cassette	x				x	0.5-50 µl	<1 ml	10 times	Silicone/ 0.4 mm	PP/ 0.22 mm	
24073291	Small tube plastic tips dispensing cassette 5-pack	x				x	0.5-50 µl	<1 ml	10 times	Silicone/ 0.4 mm	PP/ 0.22 mm	
24073295	Small tube metal tip dispensing cassette	x				x	0.5-50 µl	<1 ml	10 times	Silicone/ 0.4 mm	Stainless steel, ruby/0.22 mm	Stainless steel tip
24073296	Small tube metal tip dispensing cassette 5-pack	x				x	0.5-50 µl	<1 ml	10 times	Silicone/ 0.4 mm	Stainless steel, ruby/0.22 mm	
24073293	Long small tube plastic tip dispensing cassette	x				x	0.5-50 µl	< 5 ml	10 times	Silicone/ 0.4 mm	PP/ 0.22 mm	Manifold structure
24073298	Long small tube metal tip dispensing cassette	x				x	0.5-50 µl	< 5 ml	10 times	Silicone/ 0.4 mm	Stainless steel, ruby/0.22 mm	Manifold structure
<b>SMART DISPENSING CASSETTES</b>												
24072675	SMART Standard tube dispensing cassette (with 40 cm tubing set)		x				5-2500 µl	<7 ml	50 times	Silicone/1.3mm	PP/0.5 mm	
24072676	SMART Standard tube dispensing cassette 5-pack		x				5-2500 µl	<7 ml	50 times	Silicone/1.3mm	PP/0.5 mm	
24072678	SMART Long standard tube dispensing cassette		x				5-2500 µl	<24 ml	50 times	Silicone/1.3mm	PP/0.5 mm	
24073292	SMART Small tube plastic tip dispensing cassette		x				0.5-50 µl	<1 ml	10 times	Silicone/ 0.4 mm	PP/ 0.22 mm	
24073001	SMART Small tube plastic tip dispensing cassette 5-pack		x				0.5-50 µl	<1 ml	10 times	Silicone/ 0.4 mm	PP/ 0.22 mm	
24073297	SMART Small tube metal tip dispensing cassette		x				0.5-50 µl	<1 ml	10 times	Silicone/ 0.4 mm	Stainless steel, ruby/0.22 mm	
24073002	SMART Small tube metal tip dispensing cassette 5-pack		x				0.5-50 µl	<1 ml	10 times	Silicone/ 0.4 mm	Stainless steel, ruby/0.22 mm	
<b>TUBING SETS</b>												
24070290	Tubing set for standard tube dispensing cassette (with 40 cm tubing set)	x		x	x		5-2500 µl	<7 ml	50 times	Silicone/1.3mm	PP/0.5 mm	Includes tip comb
24070297	Long tubing set for standard tube cassette (length of tubing 50-200 cm in 10 cm increments)	x		x	x		5-2500 µl	<24 ml	50 times	Silicone/1.3mm	PP/0.5 mm	Includes tip comb

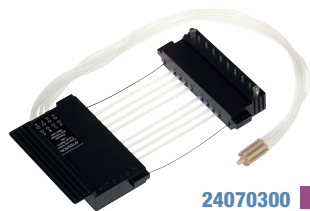
\*= depends on the instrument where used



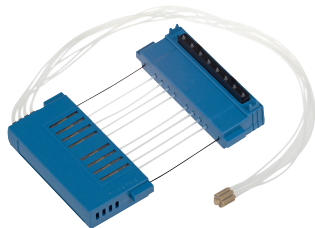
**24072670**  
Standard tube dispensing cassette



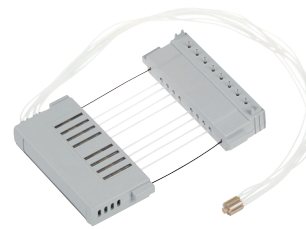
**24072677**  
Long standard tube dispensing cassette



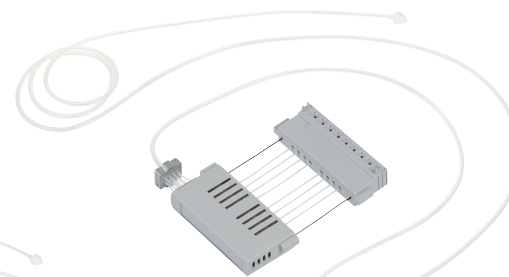
**24070300**  
Dispensing cassette



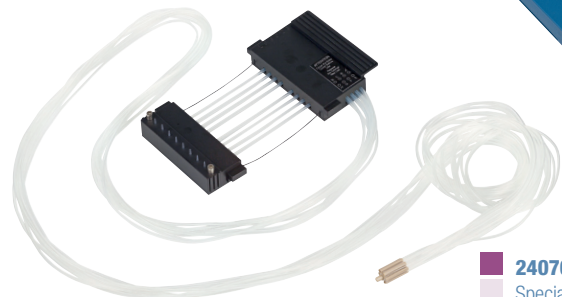
**24073290**  
Small tube plastic tips dispensing cassette



**24073295**  
Small tube metal tip dispensing cassette

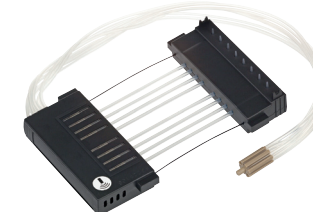
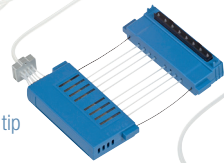


**24073298**  
Long small tube metal tip dispensing cassette



**24070307**  
Special dispensing cassette

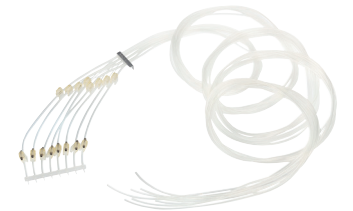
**24073293**  
Long small tube plastic tip dispensing cassette



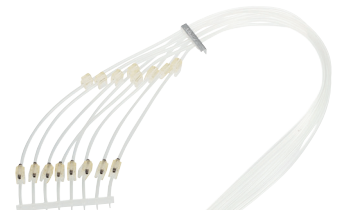
**24072675**  
SMART Standard tube dispensing cassette



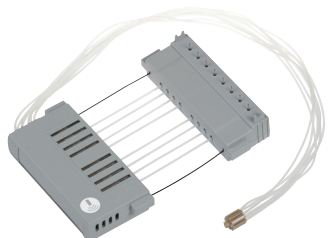
**24072678**  
SMART Long standard tube dispensing cassette



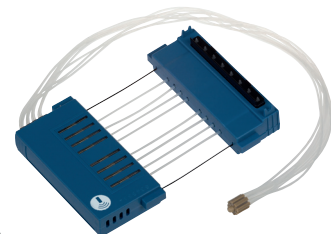
**24070297**  
Long tubing set for standard tube cassette



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



**24073297**  
SMART Small tube metal tip dispensing cassette



**24073292**  
SMART Small tube plastic tip dispensing cassette