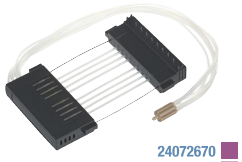
THERMO SCIENTIFIC MULTIDROP DISPENSING CASSETTES

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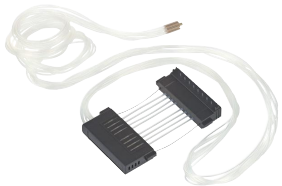
The comprehensive line of Thermo Scientific™ Multidrop™ dispensing cassettes offers optimal solutions for a wide volume range and a variety of reagents for the best performance and results.

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.

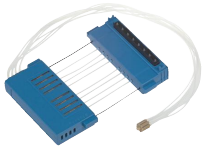
Dispensing Cassettes		Multidrop Combi	Multidrop Combi SMART	Multidrop Combi SMART 2	Multidrop 384	Multidrop DW	Multidrop Micro		*= depends on the instrument where used				
Cat. No.		Compatibility						Dispensing range*	Dead volume	Autoclavability (121°C, 1 bar, 20 min)	Tubing material/ inner Ø	Tip material/inner Ø	Note
	STANDARD TUBE CASSETTES												
24072670	Standard tube dispensing cassette	x			x	x		5–2500 µL	<7 ml	50 times	Silicone/1.3 mm	PP/0.5 mm	
24072671	Standard tube dispensing cassette 5-pack	x			x	x		5–2500 µL	<7 ml	50 times	Silicone/1.3 mm	PP/0.5 mm	
24072672	Standard tube dispensing cassette 10-pack	x			x	x		5–2500 µL	<7 ml	50 times	Silicone/1.3 mm	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/1.3 mm	PP/0.5 mm	
	SMALL TUBE DISPENSING CASSETTES												
24073290	Small tube plastic tips dispensing cassette	x					x	0.5–50 µL	<1 ml	10 times	Silicone/0.5 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/0.5 mm	PP/0.22 mm	
24073295	Small tube metal tip dispensing cassette	x					x	0.5–50 µL	<1 ml	10 times	Silicone/0.5 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/0.5 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/0.5 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/0.5 mm	Stainless steel, ruby/0.22 mm	Manifold structure
	SMART DISPENSING CASSETTES FOR MULTIDROP COMBI SMART INSTRUMENTS WITH SERIAL NUMBERS UP TO 836-2845SM												
24072675	SMART Standard tube dispensing cassette (with 40 cm tubing set)		x					5–2500 µL	<7 ml	50 times	Silicone/1.3 mm	PP/0.5 mm	
24072676	SMART Standard tube dispensing cassette 5-pack		x					5–2500 µL	<7 ml	50 times	Silicone/1.3 mm	PP/0.5 mm	
24072678	SMART Long standard tube dispensing cassette		x					5–2500 µL	<24 ml	50 times	Silicone/1.3 mm	PP/0.5 mm	
24073292	SMART Small tube plastic tip dispensing cassette		x					0.5–50 µL	<1 ml	10 times	Silicone/0.5 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/0.5 mm	PP/0.22 mm	
24073297	SMART Small tube metal tip dispensing cassette		x					0.5–50 µL	<1 ml	10 times	Silicone/0.5 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/0.5 mm	Stainless steel, ruby/0.22 mm	
	SMART 2 DISPENSING CASSETTES FOR MULTIDROP COMBI SMART 2 INSTRUMENTS WITH SERIAL NUMBERS 836-2846SM ONWARD												
N15133	SMART 2 Small tube plastic tip dispensing cassette, new RFID tag			x				0.5–50 µL	<1 ml	10 times	Silicone/0.5 mm	PP/0.22 mm	
N15134	SMART 2 Small tube plastic tip dispensing cassette 5-pack, new RFID tag			x				0.5–50 µL	<1 ml	10 times	Silicone/0.5 mm	PP/0.22 mm	
N15135	SMART 2 Small tube metal tip dispensing cassette, new RFID tag			x				0.5–50 µL	<1 ml	10 times	Silicone/0.5 mm	Stainless steel, ruby/0.22 mm	Stainless steel tip
N15136	SMART 2 Small tube metal tip dispensing cassette 5-pack, new RFID tag			x				0.5–50 µL	<1 ml	10 times	Silicone/0.5 mm	Stainless steel, ruby/0.22 mm	Stainless steel tip
N15137	SMART 2 Standard tube dispensing cassette, new RFID tag			x				5–2500 µL	<7 ml	50 times	Silicone/1.3 mm	PP/0.5 mm	
N15138	SMART 2 Standard tube dispensing cassette 5-pack, new RFID tag			x				5–2500 µL	<7 ml	50 times	Silicone/1.3 mm	PP/0.5 mm	
N15139	SMART 2 Long standard tube dispensing cassette (length of tubing 50–200 cm in 10 cm increments), new RFID tag			x				5–2500 µL	<24 ml	50 times	Silicone/1.3 mm	PP/0.5 mm	
	TUBING SETS												
24070290	Tubing set for standard tube dispensing cassette (with 40 cm tubing set)	x			x	x		5–2500 µL	<7 ml	50 times	Silicone/1.3 mm	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/1.3 mm	PP/0.5 mm	Includes tip comb



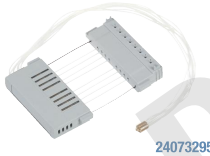
24072670
Standard tube dispensing cassette



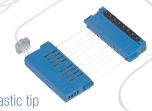
24072677
Long standard tube dispensing cassette



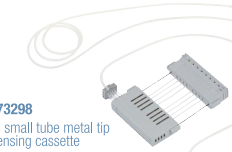
24073290
Small tube plastic tips dispensing cassette



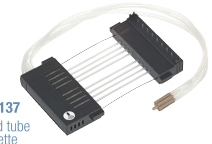
24073295
Small tube metal tip dispensing cassette



24073293
Long small tube plastic tip dispensing cassette



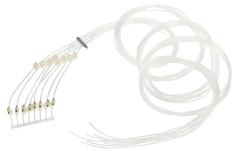
24073298
Long small tube metal tip dispensing cassette



24072675/N15137
SMART Standard tube dispensing cassette



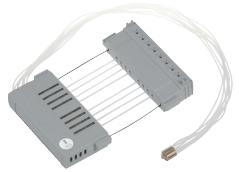
24072678/N15139
SMART Long standard tube dispensing cassette



24070297
Long tubing set for standard tube cassette



24070290
Tubing set for standard tube dispensing cassette



24073297/N15135
SMART Small tube metal tip dispensing cassette



24073292/N15133
SMART Small tube plastic tip dispensing cassette

DOMINIQUE DUTSCHER SAS

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.

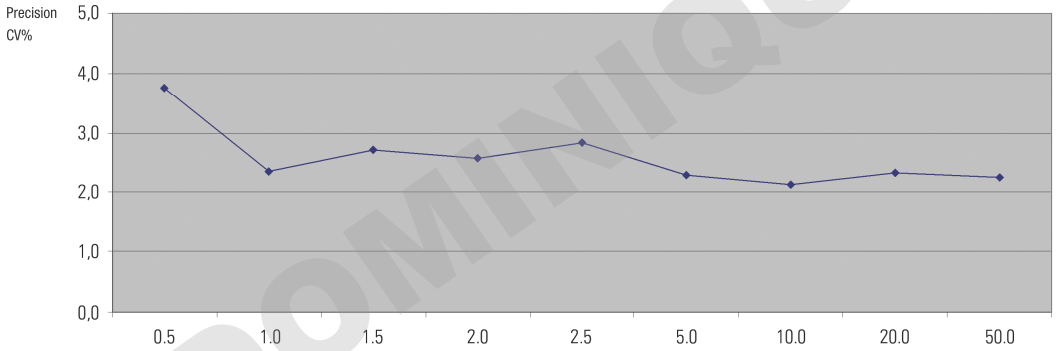
Tubing sets

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_2O through the tubings. Be sure to wash all tubings completely.
- Standard tube cassettes: use min. 20 ml ddH_2O
- Small tube cassettes: use min. 10 ml of ddH_2O
- 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_2O. 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_2O before ethanol to avoid precipitation.



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

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.

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Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representative for details.

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Dispensing Cassette
Selection Guide

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