

○ Liquid Handling Products

Orange Scientific



Tipor-VN & Tipor-VL: Single Channel Adjustable Volume Micropipettors

As with all its other ranges, Orange Scientific goal is to offer high tech products, at the best quality, giving added value and innovative features to the user, all at an equitable price. All TIPOR-V micropipettors present the following features:

- The TIPOR-V are volumetric instruments designed to measure and transfer liquids precisely and safely. It can measure and transfer volumes from 0.2µl to 10000µl depending on the model.
- Locking mechanism on TIPOR-VL ensures no accidental volume settings modification by mistake
- Features Super Low Pipetting Forces. Our TIPOR-V feature significantly lower pipetting forces than the average pipetting forces in the market.
- A special handle has been designed for comfort of use during long hours.
- The length of the tip ejector can be regulated by +1mm or +2mm. The ejector itself can be removed when working with narrow tubes.
- Fully Autoclavable.
- TIPOR-V should not normally be adjusted. However, they are designed to be easily in-lab calibrated and include a free calibration tool with each instrument.*
- Orange Scientific offers a calibration service in its laboratory. Please contact your local distributor for details.*
- A 3 year warranty covers each product.
- CE marked and IVD certified

Volume setting by turning the push button

Easy colour identification specific to each volume

Additional security

Personal safety label

Grippy finger rest work comfort

Ergonomic design

Digital display

Easy setup of tip ejector's length for any kind of desired tip

Easy removal when working with narrow test tubes

Safety for laboratory personnel



Extremely Low Pipetting Forces
Comfort & Health for laboratory personnel

Fully Autoclavable
Safety for laboratory personnel

Easy in-lab Calibration

* Calibration of pipettors means determining the difference between the dispensed volume and the selected volume. Adjustment means altering the pipettor so that the dispensed volume is within the specifications. Usually the word calibration is understood as adjusting the pipettor, and therefore, calibration, as used in this text, means testing and adjusting.

Cat # TIPOR-VN	Cat # TIPOR-VL	Volume (µl)	Accuracy (%)	Precision (%)	Fits to tip (µl)	Colour Code
3610100	3620100	Min	0.2 ±12.0	≤6.0	10 µl	Red
			1.0 ±2.7	≤1.3		
		Max	2.0 ±1.5	≤0.7		
3610105	3620105	Min	0.5 ±4.0	≤2.8	10 µl	Red
			5.0 ±1.0	≤0.6		
		Max	10.0 ±0.5	≤0.4		
3610110	3620110	Min	2 ±3.0	≤1.5	200 µl	Purple
			10 ±1.0	≤0.5		
		Max	20 ±0.8	≤0.3		
3610112	3620112	Min	5 ±2.5	≤2.0	200 µl	Green
			25 ±1.0	≤0.6		
		Max	50 ±0.8	≤0.4		
3610115	3620115	Min	10 ±1.6	≤0.8	200 µl	Orange
			50 ±0.8	≤0.24		
		Max	100 ±0.8	≤0.2		
3610120	3620120	Min	20 ±1.2	≤0.6	200 µl	Yellow
			100 ±0.8	≤0.25		
		Max	200 ±0.6	≤0.2		
3610125	3620125	Min	100 ±1.6	≤0.4	1000 µl	Blue
			500 ±0.7	≤0.2		
		Max	1000 ±0.6	≤0.15		
3610130	3620130	Min	1000 ±0.6	≤0.25	5000 µl	Turquoise
			2500 ±0.6	≤0.2		
		Max	5000 ±0.5	≤0.15		
3610135	3620135	Min	1000 ±2.5	≤0.6	10000 µl	White
			5000 ±0.8	≤0.3		
		Max	10000 ±0.5	≤0.2		

Measurement conditions: distilled water at temperature 20°C ± 1°C

3 YEAR WARRANTY

Free micropipettor hanger and calibration tool included with every micropipettor

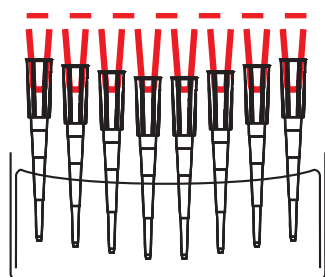


Cat #	Description
3520203	Universal Stand for 4 TIPOR
3520204	Universal Stand for 1 TIPOR
3540210	Universal Carousel Stand for 6 TIPOR

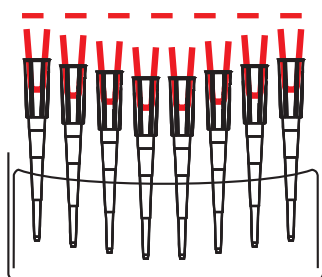


TIPOR-ML: Multi Channel Micropipettors

- Features all characteristics of TIPOR-VL including super low pipetting forces.
- Locking mechanism ensures no accidental volume settings modification by mistake
- Precise and simultaneous delivery of 8 or 12 preset-volumes doses of liquid.
- The shafts without O-rings ensure the compatibility of the pipettes with a broad assortment of tips.
- The special ejector shape reduces the force required for the tips ejection.
- The handle can be turned 360° ensuring easy handling as per the will of the user.
- Same in-lab calibration possibilities, same calibration and warranty services as with the other TIPORs.
- New Independent Cone Mechanism insuring that each cone fits precisely the tip it is inserted to. Consequently, it minimises pipetting and blowout forces, but, most importantly, significantly reduces tip sealing and ejection force.



When pressing the multi-channel against a rack, the latter always bends. With standard multi-channels, the cones stay aligned. This prevents the cones from entering the tips correctly and obliges the user to force the multi-channel.



The new TIPOR-M⁺ features cones which are independent. Therefore each cone enters and sills easily its facing tip. Forces used are considerably lowered and safety is significantly increased.

TIPOR-M ⁺ 8 CHANNEL					
Catalogue #	Volume (µl)	Accuracy (%)	Precision (%)	Colour Code	
3590100	Min	1	±8.0	≤8.0	Red
	Max	10	±2.0	≤2.0	
3590105	Min	5	±4.0	≤3.0	Green
	Max	50	±1.6	≤1.0	
3590110	Min	20	±2.0	≤1.5	Yellow
	Max	200	±1.0	≤0.8	
3590115	Min	50	±1.6	≤1.5	Blue
	Max	300	±1.0	≤0.8	

TIPOR-M ⁺ 12 CHANNEL					
Catalogue #	Volume (µl)	Accuracy (%)	Precision (%)	Colour Code	
3590118	Min	1	±8.0	≤8.0	Red
	Max	10	±2.0	≤2.0	
3590120	Min	5	±4.0	≤3.0	Green
	Max	50	±1.6	≤1.0	
3590125	Min	20	±2.0	≤1.5	Yellow
	Max	200	±1.0	≤0.8	
3590130	Min	50	±1.6	≤1.5	Blue
	Max	300	±1.0	≤0.8	



1. Colour identification specific to each volume
2. Ergonomic design
3. Locking Mechanism
4. Digital display
5. Tip ejector
6. Easy to turn tip cone
7. Highest quality corrosion resistant pistons in each channel
8. Volume setting by turning the push button
9. Grippy finger rest work comfort
10. Accuracy and reproducibility of measured liquids

Cat #	Description
3560201	Stand for TIPOR-ML: 8 channel & 12 channel

Measurement conditions: distilled water at temperature 20°C ± 1°C

Pipette Tips

- Minimal liquid retention. Ultra Low Retention (ULR) tips assure even less liquid retention. ULR tips reduce the tip retention by nearly 85 % and decreases the standard deviation of the retained volume by more than 75 %.
- Universal grip design, using flexible materials with a series of bands and supports producing a positive seal.
- Thin walls and a small surface area at the tip orifice: greatly minimising the possibility of the tip retaining sample droplets.
- The angle between the bevelled tips and the receiving vessel reduces the area surface of the tip touching the vessel. This angle combined with an ultra-thin orifice reduces the effect of liquid samples creeping up the side of the tip (capillary effect). By reducing this capillary effect, Orange Scientific tips and filter tips dispense accurate volumes.
- All tips are provided with calibration lines at specific volumes, acting as visual checks to minimise any risk of errors during sample aspiration.
- Made of high quality, low adhesion, polypropylene.
- Production complies with EN ISO standard 8655 and DIN 12650, controlled according to DIN 12600.
- Autoclavable at 121°C for 15 minutes.
- All tips are certified DNase and RNase free. Sterile tips are non pyrogenic (LAL testing).
- Available in bulk or in refillable racks. Racks feature a hinged lid that opens at 120° for easy micropipettor access, and are autoclavable.



Special 1000µl tip Design:

Usual 1000µl tips are wide and short. They do not reach the bottom of narrow vials. Orange Scientific features a special long 1000µl which reaches the bottom of the even narrowest vials.



Long 1000µl Tip



Short (Standard) 1000µl Tip

Filter Tips

In addition to above mentioned characteristics:

- All aerosols and liquids are prevented from entering the micropipettor. Thus, cross contamination is prevented.
- Virgin Polyethylene filters without additives (a potential source of contamination).
- Micropore technology ensures that the filters will never trap samples in the tip. Should the filter become wet due to inadvertent over-pipetting, it will act as a barrier to the passage of liquid, yet the sample in the tip may still be dispensed in the normal way, and can be re-used without fear of contamination. All filter tips are metal free.
- The PCR*-Filter tips (0.1-10 µl) are specially engineered for PCR* multiplication/ techniques, and provide the researcher with the confidence that the entire amount of enzymes or DNA will be captured for testing purposes and reliable results.

DNase and RNase Free Non Pyrogenic



Ordinary filter tips do not offer this feature.

(* PCR-is protected by patents issued to Hoffmann-La Roche, Inc.)

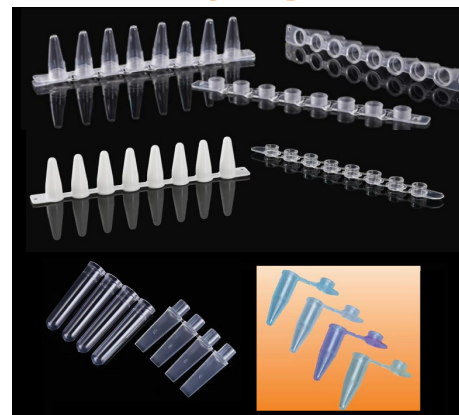
- Use of 100 % pure virgin Polypropylene.
- New manufacturing process without the use of inconsistent processes such as adding silicone.

Catalogue #	Description	Sterile	Colour	Packaging	Bags/Case, Racks/Case
2501000	Tip 0.1-10 µl	No	Clear	1000 / bag	20
2501010	Tip 0.1-10 µl	Yes	Clear	96 / rack	10
2501020	Tip 0.5-10/20 µl, Cristal	No	Clear	1000 / bag	20
2501030	Tip 0.5-10/2 µl, Cristal	Yes	Clear	96 / rack	10
2501035	Tip 1-200 µl	No	Clear	1000 / bag	20
2501040	Tip 1-200 µl	No	Yellow	1000 / bag	20
2501045	Tip 1-200 µl	No	Clear	96 / rack	10
2501050	Tip 1-200 µl	No	Yellow	96 / rack	10
2501055	Tip 1-200 µl	Yes	Clear	96 / rack	10
2501080	Tip 100-1000 µl, Long	No	Clear	500 / bag	20
2501085	Tip 100-1000 µl, Long	No	Blue	500 / bag	20
2501086	Tip 100-1000 µl, Short	No	Light Blue	1000 / bag	10
2501090	Tip 100-1000 µl, Long	No	Clear	96 / rack	10
2501095	Tip 100-1000 µl, Long	No	Blue	96 / rack	10
2501096	Tip 100-1000 µl, Short	No	Light Blue	60 / rack	10
2501100	Tip 100-1000 µl, Long	Yes	Clear	96 / rack	10
2501101	Tip 100-1000 µl, Short	Yes	Light Blue	60 / rack	10
2501111	Tip 100-1000 µl, Short	Yes	Light Blue	1000 / bag	1
3550105	Tip 1000-5000 µl	No	Clear	250 / bag	1
3556420	Tip 10.000 µl	No	Clear	200 / bag	1
2502000	Filter Tip 0.1-10 µl	Yes	Clear	96 / rack	10
2502005	Filter Tip 0.5-10 µl, Cristal	Yes	Clear	96 / rack	10
2502010	Filter Tip 1-20 µl	Yes	Clear	96 / rack	10
2502015	Filter Tip 1-30 µl	Yes	Clear	96 / rack	10
2502020	Filter Tip 1-50 µl	Yes	Clear	96 / rack	10
2502025	Filter Tip 1-100 µl	Yes	Clear	96 / rack	10
2502030	Filter Tip 1-200 µl	Yes	Clear	96 / rack	10
2502035	Filter Tip 5-230 µl	Yes	Clear	96 / rack	10
2502040	Filter Tip 100-1000 µl, Long	Yes	Clear	96 / rack	10
2502041	Filter Tip 100-1000 µl, Short	Yes	Light Blue	60 / rack	10
2502050	Filter Tip 0.1-10 µl	Yes	Clear	1000 / bag	10
2502060	Filter Tip 0.5-10/20 µl, Cristal	Yes	Clear	1000 / bag	10
2502070	Filter Tip 1-20 µl	Yes	Clear	1000 / bag	10
2502080	Filter Tip 1-30 µl	Yes	Clear	1000 / bag	10
2502090	Filter Tip 1-50 µl	Yes	Clear	1000 / bag	10
2502100	Filter Tip 1-100 µl	Yes	Clear	1000 / bag	10
2502110	Filter Tip 1-200 µl	Yes	Clear	1000 / bag	10
2502130	FilterTip 100-1000 µl, long	Yes	Clear	1000 / bag	10
2502131	FilterTip 100-1000 µl, Short	Yes	Light Blue	1000 / bag	10
2507000	Ultra Low Retention Filter Tip 0,1-10 µl	Yes	Clear	96 / rack	10
2507005	Ultra Low Retention Filter Tip 0,5-10 µl, Cristal	Yes	Clear	96 / rack	10
2507010	Ultra Low Retention Filter Tip 1-20 µl	Yes	Clear	96 / rack	10
2507012	Ultra Low Retention Filter Tip 0,5-20 µl, Cristal	Yes	Clear	96 / rack	10
2507015	Ultra Low Retention Filter Tip 1-30 µl	Yes	Clear	96 / rack	10
2507020	Ultra Low Retention Filter Tip 1-50 µl	Yes	Clear	96 / rack	10
2507025	Ultra Low Retention Filter Tip 1-100 µl	Yes	Clear	96 / rack	10
2507030	Ultra Low Retention Filter Tip 1-200 µl	Yes	Clear	96 / rack	10
2507040	Ultra Low Retention Filter Tip 100-1000 µl	Yes	Clear	96 / rack	10
2503000	racks for tips 10-200 µl (8x12)	No	Clear Lid / White Body		10
2503010	racks for tips 300 & 1000 µl long (8x12)	No	Clear Lid / White Body		10
2503015	racks for tips 100-1000 µl short (6x10)	No	Clear Lid / White Body		10

PCR Tubes

- Available in 0.2 ml and 0.5 ml both with flat caps and domed caps, and in various colours.
- Crystal clear transparency.
- Withstand being heated in a thermoblock or being subjected to high-speed centrifugation.
- Thin wall design reduces cycle times and improves product quality by proving accurate, rapid and uniform heat transfer.
- Even with the use of a thermal cycler fitted with a heated lid, the tubes feature 100 % sealing without the need for an oil overlay.
- Flat Cap PCR-Tubes provide handling convenience for low through

DNase and RNase Free Non Pyrogenic



Catalogue #	Description	Sterile	Colour	Packaging	Bags / Case
2504004	PCR 8-Strip Tubes 0,1 ml, flat cap	Yes	White	125 Strip / Bag	10
2504005	PCR 8-Strip Tubes 0,1 ml, flat cap	Yes	Clear	125 Strip / Bag	10
2504007	PCR 4-Strip Tubes 0,1 ml, flat cap	Yes	Clear	250 Strip / Bag	10
2504006	PCR 8-Strip Tubes 0,2 ml, flat cap	Yes	Clear	125 Strip / Bag	10
2504002	PCR-Tubes 0,2 ml, flat cap	No	Clear	1000 / Bag	10
2504000	PCR-Tubes 0,2 ml, flat cap, Clear	Yes	Clear	1000 / Bag	10
2504040	PCR-Tubes 0.5 ml, flat cap	Yes	Clear	1000 / Bag	10

Micro Tubes

- Available in 0.5 ml, 1.5 ml and 2.0 ml.
- Perfect sealing properties.
- One hand opening system, without any risk of sample contamination.
- Excellent chemical stability.
- Excellent optical properties.
- Flat frosted lid.
- Graduations from 0.1 ml to 1.5 ml or 2.0 ml.

DNase and RNase Free Non Pyrogenic



Catalogue #	Description	Sterile	Colour	Packaging	Bags / Case
2505007	Microtube 1.5 ml	Yes	Clear	500 / Bag	10
2505025	Microtube 1.5 ml ^①	No	Clear	500 / Bag	10
2505027	Microtube 1.5 ml	No	Clear	500 / Bag	10
2505052	Microtube 2.0 ml	No	Clear	500 / Bag	10
2505072	Microtube 2.0 ml	Yes	Clear	500 / Bag	10
2505090	Microtube 0.5 ml	No	Clear	500 / Bag	10

^① Not certified Non Pyrogenic, RNase Free and DNase Free.

Serological Pipettes

Orange Scientific Serological Pipettes are specially designed for Tissue Culture. The Serological Pipettes are **manufactured from a single piece** of high-grade polystyrene. No part of the pipette is welded to the body. Consequently, the pipettes have no welding points, **so no liquid can be trapped** at such points.

- Certified as having been sterilised by gamma radiation
- Certified Non-Pyrogenic
- Certified Non-Cytotoxic
- Certified Non-Hemolytic
- Negative graduation provides additional volume
- A plug is inserted into the top end to prevent liquid from penetrating pipettors
- Colour-coding system makes identifying the pipette volume quick and easy
- Packaged in 'peel-off' bags to ease opening. The peel-off back includes the following information: Lot Number, Expire Date and the wording "Sterile, Non Pyrogenic". Thus, the labelling even on each pipette insures all safety and certification requirements.



Catalogue #	Volume	Colour Code	Graduation	Negative Graduation	Pipettes / Box
PN1E1	1 ml	Yellow	1/100 ml	0.3 ml	500
PN2E1	2 ml	Green	1/50 ml	0.4 ml	500
PN5E1	5 ml	Blue	1/10 ml	3.0 ml	250
PN10E1	10 ml	Orange	1/10 ml	3.0 ml	200
PN25E1	25 ml	Red	1/5 ml	2.6 ml	100
7306	50 ml	Purple	1/2 ml	10 ml	100

ComfoPette⁺

- Extremely light: Only 210g
- Comfortable concave triggers
- 8 hours battery charge life
- Recharges during use
- Supplied with easy-to-use Bench Stand and Wall Mount
- Universal worldwide 100-240V AC adapter
- Environmentally friendly metal hybrid battery
- Autoclavable pipette adaptor. Suitable for all types of pipettes 1-100 ml
- 2 aspirate & dispense modes all with variable speed
 - High: High speed aspiration (triggers controlled)
 - Low: Low speed aspiration (triggers controlled)
 - Blow: Power Blow dispense (triggers controlled)
 - Grav: Gravity, to deliver, dispense by gravity
- CE marked



Catalogue #	Description
3570100	ComfoPette ⁺
3570201	Replacement filter set 0.45µm
3570202	Replacement filter set 0.2µm
3570203	Replacement silicone pipette holder
3570204	Nosepiece
3570205	Wall Mount
3570206	Bench Stand

Orange Scientific

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