

VWR® FOR LIQUID HANDLING

Titration

Pipetting

Dispensing

Accessories

VWR is now part of Avantor
Learn more on page 10

LIQUID HANDLING

We hope that you will notice several things about the VWR range of liquid handling.

Choice – enough to cover almost every application without being overwhelming

Performance – market-leading consistency and reliability

Value for money – products that don't cost a fortune to buy

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THESE SYMBOLS INDICATE IMPORTANT PRODUCT FEATURES

SYMBOLS



Autoclavable



Sterile



Sustainable



Warranty

Product range

VWR strives to offer products that are environmentally preferable with sustainable attributes. We have implemented a process to evaluate our products according to certain standards for sustainability.

These criteria vary from product to product but encompass parameters such as recyclability of the product and packaging, low CO₂ footprint, produced with renewable energy sources, energy efficient, water efficient, etc.

An initial review of various lines has taken place, and those found to offer environmental advantages have been highlighted by the 'Green Leaf' symbol. Please be aware, however, that products that don't yet have the green leaf may still have reduced environmental impact but have simply not been examined yet against our criteria.

This ongoing sustainability initiative will be applied throughout our range and will appear on more products as our evaluation continues.



Celebrate sustainability

VWR recognises that building sustainable business practices to enhance the value of the company is in the best interest of our company, our associates, our suppliers, our customers and our community. We also understand that our customers have sustainability initiatives and VWR is committed to helping them achieve their sustainability goals.

At VWR, we are approaching sustainability to meet the three primary goals as defined by the UN World Commission on Environment and Development.

- Social Impact (People)
- Environmental Protection (Planet)
- Economic Growth (Performance)

Every area of our business is measured against these principles. From the choice of materials to produce this catalogue and the environmental credentials of its printers, to the global compliance of VWR companies with the Sarbanes-Oxley act of 2002 ensuring financial integrity. Our integrated logistics network and award winning eCommerce capabilities help you to support your sustainable business practises, from order consolidation, to free waste packaging collection*.

If you want to learn more about VWR's approach to sustainability, go to vwr.com where you will find all the information you need in the 'About VWR' section, or contact sustainability@vwr.com.

**Free waste packaging collection is not available in all countries. Contact your local VWR sales office for advice*

VOLUMETRIC SOLUTIONS FOR TITRATION

- Labelled with minimum shelf life/batch number
- Traceable to SRM from NIST
- Certificates of Analysis available on web

AVS® TITRINORM®, accuracy 0,2%

Complete range of ready to use volumetric solutions from 250 ml to 20 l.

ConvoL® NORMADOSE®, accuracy 0,5%

Complete range of concentrated volumetric solutions in plastic or glass ampoules to make 1 l.



For more information, please contact your local VWR sales office.



Burettes, lateral stopcock

Borosilicate 3.3 glass, class AS.

- Schellbach stripe, stopcock with glass key
- High contrast blue enamel graduations
- Batch certificate included

DIN EN ISO 385



Burettes, straight stopcock

Borosilicate 3.3 glass, class AS.

- Schellbach stripe, stopcock with glass key
- High contrast blue enamel graduations
- Batch certificate included

DIN EN ISO 385

Capacity (ml)	Division (ml)	Tolerance (± ml)	Scale length (mm)	Pk	Cat. No.
10	0,05	0,02	500	1	612-4142
25	0,1	0,03	500	1	612-4143
50	0,1	0,05	500	1	612-4144

Capacity (ml)	Division (ml)	Tolerance (± ml)	Scale length (mm)	Pk	Cat. No.
10	0,05	0,02	500	1	612-4139
25	0,05	0,03	500	1	612-4140
50	0,1	0,05	500	1	612-4141

Digital burette, Digitrate Pro™

Digitrate Pro™ combines modern design, with precise, accurate and convenient dispensing. Its head can be conveniently rotated 360° for operator safety and comfort, whilst the see-through barrel ensures bubble-free titration. The robust outer casing does not move during priming or dispensing sequences, and the PTFE plunger and borosilicate glass barrel allow dispensing of aqueous solutions and some aggressive liquids.

- Continuous display of volume dispensed with zero reset feature for multiple titrations
- Automatic switch-off when left unattended without losing the previous titration volume
- All wetted parts are chemically resistant and autoclavable at +121 °C
- Safety pedestal valve allows the burette to be turned off to prevent accidental delivery
- Visible borosilicate glass barrel, protected with a transparent PP sleeve, can be easily removed and cleaned

Digitrate Pro™ is powered by a 3,6 V lithium battery giving a minimum life of 60 000 three-minute titrations. An automatic low battery indication is shown on the large easy to read LCD window. Simple user calibration and factory reset for ISO 9000 and GLP requirements.

The Digitrate Pro™ has a standard 30 mm neck fitting. It is supplied with three bottle neck adapters (33, 38 and 45 mm), individual calibration certificate and instruction manual. They are not supplied with a reservoir, to be ordered separately.



Volume (ml)	Division (ml)	Accuracy (%)	Imprecision (%)	Pk	Cat. No.
0 - 30	0,01	±0,2	≤0,1	1	612-3875
0 - 50	0,01	±0,2	≤0,1	1	613-5287

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VWR.com



Safety bulb pipette fillers



Red rubber with white plastic connector and silicone conical adapter, autoclavable.

- For large and small capacity pipettes
- Conical adapter for connecting pipettes more securely, avoids breakages because it requires less force to fit on the bulb
- Elastic cord for attaching the bulb to a reagent vessel or to the user's wrist

Capacity: 15 ml

Description	Colour	Pk	Cat. No.
Safety bulb pipette fillers, 15 ml	Red/white	3	612-2703

Safety pipette fillers, Standard / Universal / Flip

Natural rubber.

- For measuring and volumetric pipettes up to 10 ml (Standard) or 100 ml (Universal/Flip)
- Standard/Universal: Three ventilation valves
- Flip: Only two operating points for easier usage (release through an automatic removable valve)



Description	Colour	Pk	Cat. No.
Safety pipette filler Standard	Red	1	612-1930
Safety pipette filler Standard	Blue	1	612-2008
Safety pipette filler Universal	Red	1	612-1931
Safety pipette filler Universal	Blue	1	612-2004
Safety pipette filler Flip	Red	1	612-1920
Safety pipette filler Flip	Blue	1	612-1947

Pipette filler, Smoothie™



Pipette filler for glass and plastic pipettes from 1 to 25 ml.

- Comfortable and simple to use
- Smooth, controllable thumb action
- Silicone adapter for leakproof positioning of each pipette

The Smoothie™ pipette filler is a simple manual pipetting aid for convenient single handed operation. The unique range control allows selection from a choice of two dispense resolutions. One range setting delivers fast filling with optimal accuracy when used with 10 to 25 ml pipettes, the other setting is for use with pipettes from 1 to 10 ml where accuracy of fill can sometimes be difficult to control.



Description	Pk	Cat. No.
Pipette filler Smoothie™	1	612-4546



Pipette filler, Safetypette



Pipette filler for glass and plastic pipettes from 1 to 100 ml.

- Replaceable hydrophobic membrane filter to protect the instrument from liquid penetration
- Separate buttons for aspirating/dispensing and discharging
- Silicone adapter for leakproof positioning of each pipette

The Safetypette pipette filler facilitates the pipetting of a wide range of liquids. The practical arrangement of the controls makes work easier and gives maximum safety during serial pipetting.

Supplied with three separate nose cones in three different colours.

Description	Pk	Cat. No.
Pipette filler Safetypette	1	612-4548

Description	Pk	Cat. No.
Accessories		
Replacement filter set 0,2 µm	5	612-3681
Replacement filter set 0,45 µm	5	612-3678
Replacement silicone pipette holder	1	612-3679

Pipette controller, Powerpette Pro



Pipette controller for glass and plastic pipettes from 1 to 100 ml.

- Lightweight UV resistant body (180 g) and nose cones
- Fills a 25 ml pipette in under 3 seconds on its fastest setting
- Autoclavable silicone pipette holder
- Replaceable hydrophobic membrane filter protects the unit against liquid influx and protects samples against contamination
- Environmentally friendly rechargeable NiMH battery allows continuous usage for 4 hours; low battery light; rechargeable during use

The Powerpette Pro pipette controller delivers efficient performance with a powerful but quiet motor to speed up large volume pipetting. The mode selection switch enables selection of high or low modes both allowing variable aspirate and dispense speeds (with blow out). In any mode setting the speed of suction and dispensing is controlled through the concave finger triggers, designed to provide a comfortable and positive grip and to require minimum effort. An additional gravity dispense mode is designed for use with 'To Deliver' (TD) pipettes. The Powerpette Pro is now supplied with additional coloured nose cones to allow laboratory, application or user colour coding to minimise the risk of cross-contamination.

Supplied with charger, two spare hydrophobic filters (1x0,45 µm, 1x0,2 µm), bench stand/wall bracket and a coloured nose cone set.



Description	Pk	Cat. No.
Pipette controller Powerpette Pro, universal charger	1	612-4552

Pipette controller, Powerpette Plus



Pipette controller for glass and plastic pipettes from 1 to 100 ml.

- Speed of suction and dispensing controlled through the finger triggers
- Three aspirate and dispense modes
- High and low settings both have variable speed
- Fully-charged has approximately eight hours of continuous use available
- Low battery light illuminates when one hour's power remains

Offers a unique combination of features to give precision fingertip control in a classic streamlined design, suitable for users with large or small hands. Gravity dispense mode is designed for use with 'To Deliver' (TD) pipettes.

Supplied with 0,45 and 0,2 μ m hydrophobic filters, as standard, for effective protection against airborne contamination; 2x1,2 V nickel metal hydride batteries and universal charger.

Description	Colour code	Pk	Cat. No.
Powerpette Plus	Turquoise	1	612-3686
Powerpette Plus	Grey	1	613-4442
Powerpette Plus	Yellow	1	613-4445
Powerpette Plus	Pink	1	613-4446
Powerpette Plus	Purple	1	613-4447
Powerpette Plus	Green	1	613-4448

Description	Pk	Cat. No.
Accessories		
Replacement filter set 0,2 μ m	5	612-3681
Replacement filter set 0,45 μ m	5	612-3678
Replacement silicone pipette holder	1	612-3679





Bulb pipettes, one mark, class AS

Borosilicate 3.3 glass.

- Calibrated to deliver, total delivery
- Ring mark and inscriptions in high contrast amber stain
- Dated batch identification and batch certificate
- Not available with individual certificate

DIN EN ISO 648



Bulb pipettes, two marks, class AS

Borosilicate 3.3 glass.

- Calibrated to deliver (TD, Ex)
- Ring mark and inscriptions in high contrast amber stain
- Dated batch identification and batch certificate

DIN EN ISO 648

Capacity (ml)	Tolerance ($\pm$ ml)	Length (mm)	Pk	Cat. No.
1	0,007	300	3	612-4129
2	0,010	330	3	612-4130
3	0,010	350	3	612-4131
4	0,015	410	3	612-4132
5	0,015	410	3	612-4133
10	0,020	450	3	612-4134
20	0,030	520	2	612-4135
25	0,030	530	2	612-4136
50	0,050	550	2	612-4137
100	0,080	600	2	612-4138

Capacity (ml)	Tolerance ($\pm$ ml)	Length (mm)	Pk	Cat. No.
1	0,007	300	3	612-4775
2	0,010	330	3	612-4776
3	0,010	350	3	612-4777
4	0,015	410	3	612-4778
5	0,015	410	3	612-4779
10	0,020	450	3	612-4780
20	0,030	520	2	612-4781
25	0,030	530	2	612-4782
50	0,050	550	2	612-4783
100	0,080	600	2	612-4784



Graduated pipettes, type 3, class B

Borosilicate 3.3 glass.

- Calibrated to deliver (TD, Ex)
- Marks and inscriptions in amber stain
- Cotton plug ending (cotton plugs not included)

DIN 12696



Graduated pipettes, type 3, class AS

Borosilicate 3.3 glass.

- Calibrated to deliver (TD, Ex)
- Marks and inscriptions in amber stain
- Cotton plug ending (cotton plugs not included)
- Lot certificate

DIN 12696, ISO 835

Capacity (ml)	Division (ml)	Tolerance ($\pm$ ml)	Pk	Cat. No.
0,5	0,01	0,008	3	612-4121
1	0,01	0,01	3	612-4122
2	0,02	0,015	3	612-4123
5	0,1	0,045	3	612-4124
10	0,1	0,075	3	612-4125
20	0,1	0,15	2	612-4126
25	0,1	0,15	2	612-4127
50	0,2	0,3	2	612-4128

Capacity (ml)	Division (ml)	Tolerance ($\pm$ ml)	Pk	Cat. No.
0,5	0,01	0,0075	3	612-4767
1	0,01	0,01	3	612-4768
2	0,02	0,015	3	612-4769
5	0,1	0,045	3	612-4770
10	0,1	0,075	3	612-4771
20	0,1	0,15	2	612-4772
25	0,1	0,15	2	612-4773
50	0,2	0,3	2	612-4774



Serological pipettes, Standard Line



PS, transparent, graduated, sterile.

- Graduations are calibrated for accurate dispensing to within $\pm 3\%$
- Colour coded stripes for quick volume identification
- Non pyrogenic
- Filter plug

Individually wrapped in paper-plastic bags or bulk packed in bags.

Capacity (ml)	Division (ml)	Colour code	Packed	Pk	Cat. No.
Individually wrapped					
1	0,01	Yellow	Individual	1.000	612-3707
2	0,01	Green	Individual	800	612-3704
5	0,10	Blue	Individual	300	612-3702
10	0,10	Red	Individual	200	612-3700
25	0,20	Dark red	Individual	200	612-3698
50	1,00	Black	Individual	100	612-3696
Bulk packed					
1	0,01	Yellow	25/bag	1.000	612-3705
2	0,01	Green	25/bag	700	612-3703
5	0,10	Blue	25/bag	500	612-3701
10	0,10	Red	25/bag	350	612-3699
25	0,20	Dark red	25/bag	350	612-3697
50	1,00	Black	25/bag	250	612-3695

Serological pipettes, Premium Line

PS, transparent, graduated, non sterile or sterile. These disposable pipettes for liquid transfers are made of GPPS (general polystyrene), in compliance with USP Class VI.

- DNase-/RNase-free, non pyrogenic, non cytotoxic, non haemolytic
- Meet the requirement of BST/TSE; latex-free
- Graduations are calibrated for accurate dispensing to within $\pm 2\%$
- Pipettes are colour coded according to their volume
- Sterile pipettes: Sterilised by gamma irradiation SAL 10^{-6} (ISO 11137)
- Every product is printed with a batch number for traceability



Manufactured in a Class 100 000 cleanroom environment. Manufactured under EN ISO 13485:2003 and ISO 9001:2008 quality management systems.

Sterile pipettes are available either individually packed in peel-to-open wrap or plastic packed in vacuum PE bag with zip lock (10/25 pipettes/bag). Non sterile pipettes are vacuum bulk packed in PE bags.

Capacity (ml)	Division (ml)	Sterile	Colour code	Packed	Pk	Cat. No.
Sterile, individually packed in peel-to-open wraps						
1	0,01	+	Yellow	Individually	500	612-5504
2	0,01	+	Green	Individually	500	612-5507
5	0,1	+	Blue	Individually	400	612-5523
10	0,1	+	Orange	Individually	400	612-5541
25	0,2	+	Red	Individually	150	612-5544
50	0,5	+	Purple	Individually	100	612-5546
100	1	+	Pink	Individually	50	612-5547
Sterile, packed in PE bag with zip lock						
1	0,01	+	Yellow	25/bag	1.000	612-5505
2	0,01	+	Green	25/bag	1.000	612-5521
5	0,1	+	Blue	25/bag	500	612-5539
10	0,1	+	Orange	25/bag	400	612-5542
25	0,2	+	Red	10/bag	150	612-5545
100	1	+	Pink	10/bag	60	612-5548
Non sterile, bulk packed in PE bags						
1	0,01	-	Yellow	Bulk	2.000	612-5506
2	0,01	-	Green	Bulk	1.000	612-5522
5	0,1	-	Blue	Bulk	500	612-5540
10	0,1	-	Orange	Bulk	400	612-5543



Pipette bulbs

Natural latex.

- For Pasteur pipettes, small pipettes and medical drop counters

Capacity: 1 - 2 ml

Length: 38/57 mm

Description	Colour	Pk	Cat. No.
Dropper bulbs, 1 ml, 38 mm	Natural	72	612-2691
Dropper bulbs, 2 ml, 57 mm	Natural	72	612-2693

Pasteur pipettes

Soda-lime glass, disposable.

- Non sterile
- Automated manufacturing process ensuring total uniformity of production
- Tapered upper opening for cotton ball plugging
- Top body outer diameter: 7,1 mm, wall thickness: 0,53 mm, jet outer Ø: 1,50 mm

Description	Capacity (ml)	Length (mm)	Pk	Cat. No.
Non plugged	2,0	150	250	612-1701
Pre-plugged	2,0	150	250	612-1798
Non plugged	2,0	230	250	612-1702
Non plugged, sealed tip, breakable	2,0	230	250	612-3850
Pre-plugged	2,0	230	250	612-1799
Pre-plugged, sealed tip, breakable	2,0	230	250	612-3849
Non plugged, sealed tip, breakable	2,0	270	250	612-3860
Pre-plugged, sealed tip, breakable	2,0	270	250	612-3861



WE SET SCIENCE IN MOTION TO CREATE A BETTER WORLD.

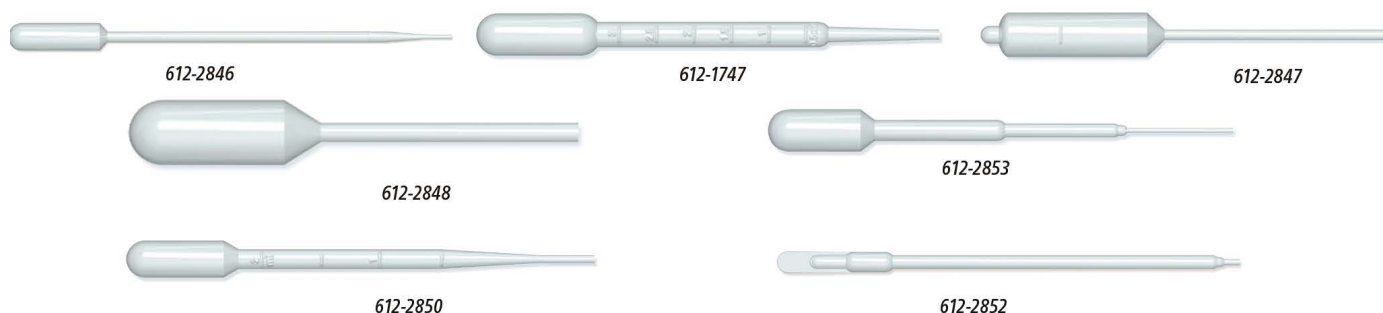
From breakthrough discovery to agile delivery of innovative products and services, Avantor® and VWR are one company.

Our shared vision: to be your trusted partner, providing discovery-to-delivery solutions for our global life sciences and advanced technology customers.

Learn more about our new company at
www.SettingScienceinMotion.com

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Transfer pipettes, High Performance



LDPE, disposable. These unbreakable all-in-one-pipettes eliminate the hazard of broken glass and exposure to infectious materials. The low affinity surface reduces the loss of cells and valuable proteins due to binding. They work well whenever there is a need for quick, safe transfer of fluids.

- Non toxic and inert to biological fluids and most acids
- Can be heat-sealed and frozen at very low temperatures such as in liquid nitrogen
- Available sterile or non sterile
- Sterility assurance level is SAL10⁻⁶

Sterile pipettes are packaged in medical grade paper and non toxic film.

Capacity (ml)	Drops per ml	Bulb draw (ml)	Stem Ø (mm)	Length (mm)	Graduation (ml)	Sterile	Packed	Pk	Cat. No.
General purpose									
1,5	25	1,0	5	87	-	-	Bulk	1.000	612-2846
1,5	28	1,0	5	123	-	-	Bulk	1.000	612-2849
Graduated									
3,0	22	1,5	5	138	1,0	-	Bulk	500	612-2851
5,0	23	3,5	5	150	1,0	-	Bulk	500	612-1684
5,0	23	3,5	5	150	1,0	+	Individual	500	612-1685
5,0	23	3,5	5	150	1,0	+	5 per bag	500	612-1686
5,0	23	3,5	5	150	1,0	+	10 per bag	500	612-1687
6,0	22	3,5	5	230	1,5	-	Bulk	400	612-2842
6,0	22	3,5	5	230	1,5	+	Individual	500	612-2843
6,0	22	3,5	5	230	1,5	+	5 per bag	500	612-2844
6,0	22	3,5	5	230	1,5	+	10 per bag	500	612-2845
7,0	21	3,5	7,8	150	3,0	-	Bulk	500	612-1681
7,0	21	3,5	7,8	150	3,0	+	Individual	500	612-1747
7,0	21	3,5	7,8	150	3,0	+	5 per bag	500	612-1682
7,0	21	3,5	7,8	150	3,0	+	10 per bag	500	612-1683
Extra large									
14,0	18	10,0	4	170	-	-	Bulk	200	612-2847
23,0	22	10,0	9	300	-	-	Bulk	600	612-2859
Narrow stem									
1,2	25	0,9	2,5	63	-	-	Bulk	500	612-2848
4,0	22	3,5	2,5	83	-	-	Bulk	1.000	612-2841
4,0	28	3,5	2,5	150	-	-	Bulk	500	612-1688
4,0	28	3,5	2,5	150	-	+	Individual	500	612-1756
4,0	28	3,5	2,5	150	-	+	5 per bag	500	612-1689
4,0	28	3,5	2,5	150	-	+	10 per bag	500	612-1690
Fine tip									
1,5	50	1,0	3	104	-	-	Bulk	400	612-2853
5,0	65	3,5	5	144	-	-	Bulk	500	612-2856
5,0	65	3,5	5	144	-	+	Individual	500	612-2857
5,0	65	3,5	5	144	-	+	10 per bag	500	612-2858
6,0	-	6,0	6,3	150	-	-	Bulk	400	612-4464
6,0	-	6,0	6,3	150	-	+	Individual	500	612-4465
7,0	66	6,0	6,3	150	-	+	5 per bag	500	612-2854
7,0	66	6,0	6,3	150	-	+	10 per bag	500	612-2855
Blood bank									
5,0	22	2,0	6,7	155	2,0	-	Bulk	500	612-2850
Paddle									
3,0	33	0,2	3,8	130	-	-	Bulk	500	612-2852

Transfer pipettes, Standard Line

LDPE, disposable. These unbreakable all-in-one pipettes eliminate the potential hazard of broken glass and exposure to infectious materials.

- Will not shatter or break
- Non toxic and inert to biological fluids and most acids
- Can be sealed, refrigerated and gas sterilised
- No bulb to insert or remove
- Uniform drop size

The low affinity surface reduces the loss of cells and valuable proteins due to binding. They work well whenever there is a need for quick, safe transfer of fluids.

	Capacity (ml)	Drops per ml	Bulb draw (ml)	Length (mm)	Graduation (ml)	Sterile	Packed	Pk	Cat. No.
Graduated, large bulb									
	5,8	25	3,4	155	0,25	+	20 per bag	500	612-4491
	5,8	25	3,4	155	0,25	-	Bulk	500	612-4494
	5,8	25	3,4	155	0,25	+	Individually wrapped	500	612-4497
	5,8	25	3,4	155	0,25	+	Peel-off pouch (50×10)	500	612-4523
	5,8	25	3,4	155	0,25	-	Peel-off pouch (50×10)	500	612-4533
	5,8	25	3,4	155	0,25	-	Peel-off pouch (100×5)	500	612-4542
	7,0	20	3,0	153	1,0	+	Individually wrapped	500	612-4473
	7,0	20	3,0	153	1,0	-	Bulk	500	612-4472
	7,5	20	3,2	155	0,5	+	20 per bag	500	612-4502
	7,5	20	3,2	155	0,5	+	Peel-off pouch (100×5)	500	612-4536
	7,5	20	3,2	155	0,5	+	Peel-off pouch (50×10)	500	612-4538
	7,5	20	3,2	155	0,5	+	Individually wrapped	500	612-4543
	7,5	20	3,2	155	0,5	-	Bulk	500	612-4545
Graduated, small bulb									
	3,0	25	2,1	140	0,25	-	Bulk	500	612-4520
Graduated, thin stem									
	1,5	21	0,8	116	0,1	-	Bulk	500	612-3399
	1,5	21	0,8	116	0,1	+	20 per bag	500	612-4468
	1,5	21	0,8	116	0,1	+	Individually wrapped	500	612-4469
Graduated, for blood banks									
	5	25	1,9	155	0,5	-	Bulk	500	612-5770
Non graduated, standard									
	7,5	20	3,2	155	-	-	Bulk	500	612-4504
	7,5	20	3,2	155	-	+	20 per bag	500	612-4505
	7,5	20	3,2	155	-	+	Individually wrapped	500	612-4506
	15,0	19	8,0	155	-	+	Individually wrapped	250	612-4513
Non graduated, general purpose									
	1,7	25	0,9	87	-	-	Bulk	500	612-3608
	1,7	25	0,9	87	-	+	20 per bag	500	612-4470
	1,7	25	0,9	87	-	+	Individually wrapped	500	612-4471
Non graduated, general purpose, large bulb									
	8,0	20	4,6	152	-	+	20 per bag	400	612-4508
	8,0	20	4,6	152	-	+	Individually wrapped	400	612-4509
	9,3	18	4,8	137	-	-	Bulk	250	612-4511
Non graduated, narrow stem, standard									
	4,6	22	3,3	155	-	-	Bulk	500	612-3609
	4,6	22	3,3	155	-	+	Peel-off pouch (100×5)	500	612-4526
	4,6	22	3,3	155	-	+	Peel-off pouch (50×10)	500	612-4527
	4,6	22	3,3	155	-	+	20 per bag	500	612-4479
	4,6	22	3,3	155	-	+	Individually wrapped	500	612-4481
Non graduated, narrow stem, large bulb									
	4,0	25	3,0	86	-	-	Bulk	500	612-4476
	15,0	19	8,0	155	-	-	Bulk	250	612-4512

	Capacity (ml)	Drops per ml	Bulb draw (ml)	Length (mm)	Graduation (ml)	Sterile	Packed	Pk	Cat. No.
Non graduated, long									
	5,5	25	2,3	230	-	+	20 per bag	400	612-4499
	5,5	25	2,3	230	-	+	Individually wrapped	400	612-4500
	5,5	25	2,3	230	-	-	Bulk	500	612-3610
Non graduated, extra long									
	23,0	20	7,3	300	-	+	20 per bag	100	612-4514
	23,0	20	7,3	300	-	+	Individually wrapped	100	612-4515
	23,0	20	7,3	300	-	-	Bulk	100	612-3627
Non graduated, fine tip, standard									
	5,8	50	3,3	147	-	-	Bulk	500	612-4492
	5,8	50	3,3	147	-	+	20 per bag	500	612-4495
	5,8	50	3,3	147	-	+	Individually wrapped	500	612-4496
	5,8	50	3,3	147	-	-	Peel-off pouch (50x10)	500	612-4530
Non graduated, extended fine tip, large bulb									
	5,0	50	3,3	153	-	-	Bulk	250	612-4486
	5,0	50	3,3	153	-	+	20 per bag	500	612-4490
Non graduated, extended fine tip, small bulb									
	1,5	50	1,0	104	-	+	20 per bag	500	612-4466
	1,5	50	1,0	104	-	+	Individually wrapped	400	612-4518
	1,5	50	1,0	104	-	-	Bulk	400	612-3619

Single channel pipettes, mechanical, variable volume, Ultra-High Performance (UHP)



VWR Ultra-High Performance pipettes offer superior accuracy and precision, with proven ergonomic design which is both lightweight and durable.

- Very low plunger forces
- Universal tip capability
- Automatic locking volume adjustment wheel
- Levered tip ejection and colour coded for volume identification
- Easy in-house calibration and maintenance
- Fully autoclavable



VWR EHP 5 Pack

Capacity (µl)	Accuracy (%)	Imprecision (%)	Pk	Cat. No.
0,1 - 2	±12,0 - ±1,5	<6,0 - <0,7	1	613-1488
0,5 - 10	±4,0 - ±0,5	<2,8 - <0,4	1	613-1489
2 - 20	±3,0 - ±0,8	<1,5 - <0,3	1	613-1490
5 - 50	±3,0 - ±0,8	<2,0 - <0,4	1	613-1628
10 - 100	±1,6 - ±0,8	<1,5 - <0,3	1	613-1491
20 - 200	±1,2 - ±0,6	<0,8 - <0,2	1	613-1492
100 - 1000	±0,9 - ±0,6	<0,6 - <0,2	1	613-1493

Description	Pk	Cat. No.
Starter kits		
VWR UHP 3 Pack incl. 3 pipettes (0,5 - 10 / 10 - 100 / 100 - 1000 µl) and 8 pipette multiple stand	1	613-5468
VWR UHP 3 Pack incl. 3 pipettes (2 - 20 / 20 - 200 / 100 - 1000 µl) and 8 pipette multiple stand	1	613-5467
VWR UHP 4 Pack incl. 4 pipettes (0,5 - 10 / 2 - 20 / 20 - 200 / 100 - 1000 µl) and 8 pipette multiple stand	1	613-5463
VWR UHP 5 Pack incl. 5 pipettes (0,1 - 2 / 0,5 - 10 / 2 - 20 / 20 - 200 / 100 - 1000 µl) and 8 pipette multiple stand	1	613-5464
Accessories		
Linear stand for 4 pipettes	1	613-5471
Multiple stand for up to 8 pipettes	1	613-5472



Single channel pipettes, mechanical, variable volume, Ergonomic High Performance (EHP)

The Ergonomic High Performance pipettes provide accuracy and precision you can rely on. The upgraded ergonomic features deliver comfortable pipetting even during extensive periods of use.

- Significantly reduced plunger forces vs prior model
- Effortless volume adjustment with volume lock
- Superior accuracy and precision for critical applications
- Tapered shaft and adjustable 'Easy Grip' ejector for universal tip fit
- Extended finger rest for convenient pipetting
- UV resistant and fully autoclavable



VWR EHP 3 Pack

Capacity (µl)	Accuracy (%)	Imprecision (%)	Pk	Cat. No.
0,2 - 2	±12,0 - ±1,5	<6,0 - <0,7	1	613-5258
0,5 - 10	±1,2 - ±0,6	<2,8 - <0,4	1	613-5259
2 - 20	±1,0 - ±0,6	<1,5 - <0,3	1	613-5260
5 - 50	±0,9 - ±0,6	<2,0 - <0,4	1	613-5261
10 - 100	±0,6 - ±0,5	<0,8 - <0,2	1	613-5262
20 - 200	±2,5 - ±0,5	<0,6 - <0,2	1	613-5263
50 - 250	±1,0 - ±0,6	<0,4 - <0,3	1	613-5264
100 - 1000	±0,9 - ±0,6	<0,4 - <0,15	1	613-5265
1000 - 5000	±0,6 - ±0,5	<0,25 - <0,15	1	613-5266
1000 - 10000	±2,5 - ±0,5	<0,6 - <0,2	1	613-5267
Description			Pk	Cat. No.
Starter kits				
VWR EHP 3 Pack, incl. 3 pipettes (0,5 - 10 / 10 - 100 / 100 - 1000 µl) and 4 pipette linear stand			1	613-5466
VWR EHP 3 Pack, incl. 3 pipettes (2 - 20 / 20 - 200 / 100 - 1000 µl) and 4 pipette linear stand			1	613-5465
VWR EHP 4 Pack, incl. 4 pipettes (0,5 - 10 / 2 - 20 / 20 - 200 / 100 - 1000 µl) and 4 pipette linear stand			1	613-5462
Accessories				
Linear stand for 4 pipettes			1	613-5471
Multiple stand for up to 8 pipettes			1	613-5472
Rotating stand for up to 6 pipettes (only single channel, volumes 2 - 1000 µl (EHP and Standard Line))			1	613-5473

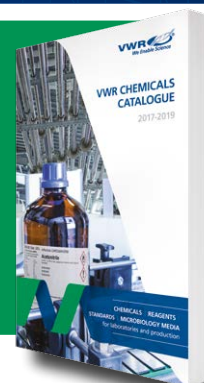


VWR® Chemicals catalogue

2017-2019

Chemicals, Reagents, Standards, Microbiology Media
for laboratories and productions.

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Single channel pipettes, mechanical, fixed volume



- Ergonomically designed to fit large or small hands for extra comfort while working, for left or right handed operation
- Slim tip mounting cone compatible with all tips
- Stainless steel movable and height adjustable tip ejector
- Maintenance-free seals, polished plungers for superior precision
- Fully autoclavable

Supplied with a key for calibrating in the laboratory.



Capacity (µl)	Accuracy (%)	Imprecision (%)	For pipette tips (µl)	Pk	Cat. No.
5	±1,6	<1,0	10	1	613-0166
10	±1,0	<0,6	10	1	613-0167
20	±0,8	<0,4	200	1	613-0168
25	±0,8	<0,4	200	1	613-0169
50	±0,8	<0,4	200	1	613-0170
100	±0,8	<0,3	200	1	613-0171
200	±0,6	<0,3	200	1	613-0172
250	±0,6	<0,3	1000	1	613-0173
500	±0,5	<0,3	1000	1	613-0174
1000	±0,4	<0,3	1000	1	613-0175

Description	Pk	Cat. No.
Accessories		
Linear stand for 4 pipettes	1	613-5471
Multiple stand for up to 8 pipettes	1	613-5472



designed for precision

VWR® for temperature measurement and recording

Glass thermometers - Temperature indicating strips - Infra red thermometers - Digital thermometers - Hygrometers - Chart recorders - Data loggers - Weather stations

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Single channel pipettes, mechanical, variable volume, Standard Line

These lightweight Standard Line pipettes provide accuracy and precision. Their ergonomic features, such as the contoured shape of the handle and the soft spring system, deliver smooth and effortless pipetting even during extensive periods of use.

- Easily adjustable ejector height system to accommodate virtually all brands of tips
- UV resistant and fully autoclavable
- Easy and quick recalibration system
- Colour coded shaft for easy volume identification
- 5000 and 10000 µl version with shaft protected by filter



613-5469

Capacity (µl)	Accuracy (%)	Imprecision (%)	Pk	Cat. No.
0,2 - 2	±12,0 - ±1,5	≤6,0 - ≤0,7	1	613-2891
0,5 - 10	±4,0 - ±0,5	≤2,8 - ≤0,4	1	613-2892
2 - 20	±3,0 - ±0,8	≤1,5 - ≤0,3	1	613-2893
10 - 100	±1,6 - ±0,8	≤0,8 - ≤0,2	1	613-2894
20 - 200	±1,2 - ±0,6	≤0,6 - ≤0,2	1	613-2895
100 - 1000	±1,6 - ±0,6	≤0,4 - ≤0,15	1	613-2896
500 - 5000	±1,2 - ±0,5	≤0,5 - ≤0,15	1	613-2897
1000 - 10000	±2,5 - ±0,5	≤0,6 - ≤0,2	1	613-2898

Description	Pk	Cat. No.
Starter kit		
VWR Standard 3 Pack (2 - 20 / 20 - 200 / 100 - 1000 µl)	1	613-5469
Accessories		
Linear stand for 4 pipettes	1	613-5471
Multiple stand for up to 8 pipettes	1	613-5472
Rotating stand for up to 6 pipettes (only single channel, volumes 2 - 1000 µl (EHP and Standard Line))	1	613-5473





Multi-channel pipettes, mechanical, variable volume, Ultra-High Performance (UHP)



VWR Ultra-High Performance pipettes offer superior accuracy and precision, with proven ergonomic design both lightweight and durable.

- Low plunger forces
- Universal tip capability
- Automatic locking volume adjustment wheel
- Levered tip ejection and colour coded for volume identification
- Easy in-house calibration and maintenance
- Fully autoclavable

Capacity (µl)	Accuracy (%)	Imprecision (%)	Pk	Cat. No.
8-Channel				
1 - 10	±8,0 - ±2,0	<6,0 - <1,2	1	613-1494
5 - 50	±4,0 - ±1,6	<2,5 - <0,6	1	613-1495
20 - 200	±3,0 - ±1,0	<1,5 - <0,6	1	613-1496
50 - 300	±1,6 - ±1,0	<1,5 - <0,6	1	613-1497

Capacity (µl)	Accuracy (%)	Imprecision (%)	Pk	Cat. No.
12-Channel				
1 - 10	±8,0 - ±2,0	<6,0 - <1,2	1	613-1498
5 - 50	±4,0 - ±1,6	<2,5 - <0,6	1	613-1499
20 - 200	±3,0 - ±1,0	<1,5 - <0,6	1	613-1500
50 - 300	±1,6 - ±1,0	<1,5 - <0,6	1	613-1506

Description	Pk	Cat. No.
Accessories		
Linear stand for 1 pipette	1	613-5470
Linear stand for 4 pipettes	1	613-5471
Multiple stand for up to 8 pipettes	1	613-5472

Multi-channel pipettes, mechanical, variable volume, Ergonomic High Performance (EHP)



The Ergonomic High Performance pipettes from VWR provide accuracy and precision you can rely on. The upgraded ergonomic features deliver comfortable pipetting even during extensive periods of use.

- Significantly reduced plunger forces
- Effortless volume adjustment with volume lock
- Superior accuracy and precision for critical applications
- Tapered shaft and adjustable 'Easy Grip' ejector for universal tip fit
- Extended finger rest for convenient pipetting
- Fully autoclavable



Capacity (µl)	Accuracy (%)	Imprecision (%)	Pk	Cat. No.
8-Channel				
1 - 10	±8,0 - ±2,0	<8,0 - <2,0	1	613-5250
5 - 50	±4,0 - ±1,6	<4,0 - <1,6	1	613-5251
20 - 200	±2,0 - ±1,0	<1,5 - <0,8	1	613-5252
50 - 300	±1,6 - ±1,0	<1,5 - <0,8	1	613-5253

Capacity (µl)	Accuracy (%)	Imprecision (%)	Pk	Cat. No.
12-Channel				
1 - 10	±8,0 - ±2,0	<8,0 - <2,0	1	613-5254
5 - 50	±4,0 - ±1,6	<4,0 - <1,6	1	613-5255
20 - 200	±2,0 - ±1,0	<1,5 - <0,8	1	613-5256
50 - 300	±1,6 - ±1,0	<1,5 - <0,8	1	613-5257

Description	Pk	Cat. No.
Accessories		
Linear stand for 4 pipettes	1	613-5471
Multiple stand for up to 8 pipettes	1	613-5472

Multi-channel pipettes, mechanical, variable volume, Standard Line



These lightweight Standard Line pipettes feature a revolutionary suspension system which allows the shaft to retract slightly when pressed against a row of pipette tips. Each shaft moves independently, resulting in an even sealing force being applied to all 8 or 12 tips. The suspension system not only ensures secure tip sealing but also eliminates tips being jammed.

- Easily adjustable ejector height system to accommodate virtually all brands of tips
- Contoured shape of the handle, 360° manifold and soft spring system delivers smooth and effortless pipetting even during extensive periods of use
- UV resistant and fully autoclavable
- Easy and quick recalibration system
- Colour coded shaft for easy volume identification



Capacity (µl)	Accuracy (%)	Imprecision (%)	Pk	Cat. No.
8-Channel				
0,5 - 10	±10 - ±2,0	≤8,0 - ≤1,2	1	613-2899
5 - 50	±4,0 - ±1,6	≤2,5 - ≤0,6	1	613-2900
20 - 200	±3,0 - ±1,0	≤1,5 - ≤0,6	1	613-2901
50 - 300	±1,6 - ±1,0	≤1,5 - ≤0,6	1	613-2902
12-Channel				
0,5 - 10	±10 - ±2,0	≤8,0 - ≤1,2	1	613-2903
5 - 50	±4,0 - ±1,6	≤2,5 - ≤0,6	1	613-2904
20 - 200	±3,0 - ±1,0	≤1,5 - ≤0,6	1	613-2905
50 - 300	±1,6 - ±1,0	≤1,5 - ≤0,6	1	613-2910
Description				
Accessories			Pk	Cat. No.
Linear stand for 1 pipette			1	613-5470
Linear stand for 4 pipettes			1	613-5471
Multiple stand for up to 8 pipettes			1	613-5472

Experience... vwr.com

IMPROVED SEARCH | FASTER CHECKOUT | IMPROVED ORDER STATUS



Stands for VWR® pipettes

White pipette stands for single and multi-channel pipettes.

Stand 613-5471: Compatible with all single and multi-channel pipettes (EHP, UHP and Standard Line)

Stand 613-5472: Compatible with all single and multi-channel pipettes (EHP, UHP and Standard Line)

Stand 613-5473: Compatible only with single channel pipettes, volumes 2 - 1000 µl (EHP and Standard Line)



613-5473



613-5472



613-5471

Description	Pk	Cat. No.
Linear stand for 1 pipette	1	613-5470
Linear stand for 4 pipettes	1	613-5471
Multiple stand for up to 8 pipettes	1	613-5472
Rotating stand for up to 6 pipettes (only single channel, volumes 2 - 1000 µl (EHP and Standard Line))	1	613-5473



Pipette stand, rotary

This carousel pipette stand made from ABS can hold up to eight single channel, four multi-channel, or a combination of both pipettes.

- Weighted base allows for easy removal or replacement of pipettes with one hand
- Pipettes are held in a vertical position to help prevent contamination
- Conveniently rotate stand head to select or store pipettes
- Quick grip handle to move pipette stand (loaded or unloaded)
- Unit is not autoclavable but can be cleaned with soap/water or common laboratory disinfectants

A sleek and modern design enables this stand to securely hold virtually every known brand of pipette in the marketplace making it truly 'universal'. Inserts on the upper holders can be added or removed to accommodate the fit of different of pipette widths. Moving the stand, while keeping pipettes in place, is simple with a quick grip handle allowing a user to grab and go.

Colour	ØxH (mm)	Pk	Cat. No.
Purple/white	158/229x408	1	612-5763



AVAILABLE RANGE

5 single channels (from 0,5 to 1200 µl) and
10 multichannels (from 0,5 to 1200 µl).

LIGHTWEIGHT - PERFECTLY BALANCED

VWR Electronic Pipette is an electronic pipette requiring virtually no force to significantly reduce RSI (Repetitive Strain Injury) associated with routine work.

ERGONOMIC/COUNTERED SHAPE

- Comfortable in either left or right hand
- 360° rotating manifold

ONLY 2 BUTTONS AND 5 PIPETTING MODES

Intuitive interface with 5 different modes:
PIPET, REPETITIVE, MIX, REVERSE and CUSTOM mode.

CUSTOM MODE FOR SPECIFIC APPLICATIONS

Create, transfer and store your own pipetting tasks using VWR Protocol Builder Software.

FULLY MOTORISED PISTON DRIVE

For an even and regular sample delivery across each channel.

SECURE TIP FIT/EJECTION

Tip holders are designed for a secure tip fit and easy ejection thanks to a curved ejector bar.

USE WHILE CHARGING

VWR Electronic Pipette can be used while charging without compromising performance.

2 YEAR WARRANTY

Pipettes are supplied with a Certificate of Conformity including a 2 year warranty.

SPECIFICATIONS AND ORDERING INFORMATION

Max. permissible errors (standard pipetting mode)							
VWR				ISO 8655-2			
Model	Volume range	Volume	Systematic error (µl)	Random error (µl)	Systematic error (µl)	Random error (µl)	Cat. No.
VWR10	0,5 - 10 µl	0,5	±0,044	≤0,014	±0,12	≤0,08	613-5415
		1	±0,028	≤0,013	±0,12	≤0,08	
		5	±0,066	≤0,022	±0,12	≤0,08	
		10	±0,088	≤0,028	±0,12	≤0,08	
VWR20	2 - 20 µl	2	±0,083	≤0,028	±0,2	≤0,1	613-5416
		10	±0,110	≤0,039	±0,2	≤0,1	
		20	±0,165	≤0,055	±0,2	≤0,1	
VWR100	5-100 µL	5	±0,39	≤0,11	±0,8	≤0,3	613-5781
		10	±0,33	≤0,11	±0,8	≤0,3	
		50	±0,42	≤0,13	±0,8	≤0,3	
		100	±0,44	≤0,17	±0,8	≤0,3	
VWR300	20 - 300 µl	20	±0,88	≤0,18	±4,0	≤1,5	613-5417
		30	±0,77	≤0,22	±4,0	≤1,5	
		150	±0,99	≤0,25	±4,0	≤1,5	
		300	±1,16	≤0,33	±4,0	≤1,5	
VWR1200	100 - 1200 µl	100	±2,8	≤0,4	±16	≤6,0	613-5418
		120	±2,6	≤0,4	±16	≤6,0	
		600	±4,0	≤0,9	±16	≤6,0	
		1200	±6,6	≤1,3	±16	≤6,0	
VWR8x10 VWR12x10	0,5 - 10 µl	0,5	±0,06	≤0,022	±0,24	≤0,16	613-5419
		1	±0,04	≤0,022	±0,24	≤0,16	613-5423
		5	±0,09	≤0,044	±0,24	≤0,16	
		10	±0,11	≤0,066	±0,24	≤0,16	
VWR8x20 VWR12x20	1 - 20 µl	1	±0,09	≤0,055	±0,4	≤0,2	613-5420
		10	±0,17	≤0,110	±0,4	≤0,2	613-5424
		20	±0,28	≤0,132	±0,4	≤0,2	
VWR8x100 VWR12x100	10-100 µl	10	±0,28	≤0,15	±1,6	≤0,6	
		50	±0,55	≤0,22	±1,6	≤0,6	
		100	±0,88	≤0,28	±1,6	≤0,6	
VWR8x300 VWR12x300	10 - 300 µl	10	±1,10	≤0,20	±8,0	≤3,0	613-5421
		30	±1,10	≤0,20	±8,0	≤3,0	613-5425
		150	±1,65	≤0,413	±8,0	≤3,0	
		300	±2,64	≤0,50	±8,0	≤3,0	
VWR8x1200 VWR12x1200	50 - 1200 µl	50	±4,4	≤0,8	±32	≤12	613-5422
		120	±4,4	≤0,8	±32	≤12	613-5426
		600	±6,6	≤1,7	±32	≤12	
		1200	±10,6	≤2,0	±32	≤12	

Pipette charging stand, rotary

This power carousel is a comfortable charging solution for up to five electronic pipettes.

- Protects valuable instruments from shocks and contamination
- Pipettes hang vertically to prevent liquids from running inside the shaft
- Rotating head gives users easy access to the pipette of their choice
- Slim design allows users to have a neat, tidy and organised work bench
- Unrollable cable will avoid any cable spaghetti issue

Description	Cat. No.
Pipette charging stand, rotary, for up to 5 electronic multi and single channel pipettes	613-5747



PIPETTE SERVICES

Providing support and traceability ...ensuring compliance

Multi-brand pipette calibration and maintenance

VWRCATALYST pipette services is our total care programme for calibration and service of single and multi channel pipettes, steppers, burettes, volumetric glassware, titrators and other liquid handling equipment. It provides traceable results to ensure that your equipment is in compliance with your quality system. The accuracy and precision of your liquid handling device is essential. Preventative maintenance and cleaning is a must for smooth operation and for a longer life cycle of your pipette. In addition, for your device to remain compliant, regular pipette calibration is required by GLP, GMP, FDA and ISO.



A complete service solution- in-house or on-site

VWR's calibration service of pipettes, steppers, burettes and volumetric glassware covers:

- Calibration procedures according ISO 8655/ISO4787
- Adjustment
- Preventative maintenance
- Corrective maintenance/repair
- Troubleshooting and diagnosis
- Calibration certificate
- Due time reminder system

We also offer our services on-site if required.

We set the highest standards - trained technicians and full ISO/IEC 17025 accredited facilities

At VWR we commit ourselves to use the highest standards for our pipette service.

- Calibration according to ISO 8655
- Genuine spare parts for repairs
- Accredited Competence Centre is fully compliant with ISO/IEC 17025
- VWR technicians are fully certified and trained by the manufacturers

Traceable from beginning to end...

Every calibration is registered with a free calibration certificate including individual calibration results. If an accredited calibration according ISO/IEC 17025 is required, a certificate is provided with the accreditation logo which gives direct traceability to a National Standard. In the case of pipette adjustment you will receive two calibration certificates from us, one from before the adjustment and one after.

For all **GLP laboratories** we perform an **as-found** and an **as-left** calibration. This means that we perform a calibration before preventative maintenance and after which is completely in line with the GLP requirements.

Every calibrated pipette gets a calibration label with calibration and recalibration date. To keep your pipette in a calibrated status we have our due-time reminder system. This system will inform you about the due time for your pipette's calibration and service.



VWR Pipette Insurance Plans

Ensuring your requirements are met

Based on our 20 years of calibrating, repairing and servicing pipettes and other liquid handling devices, we have created Pipetting Insurance Plans which are a complete service package tailored to meet your needs.

light

Economic calibration and adjustment

If your pipettes are calibrated several times a year, maintenance might not be needed with every calibration. This PIP plan answers to this need and can be easily combined with the VWR® Care, VWR® Eco or VWR® Pro plans

Eco

Preventative maintenance, economic calibration and adjustment

When you do not need to comply with any ISO standard, VWR® Eco is the solution for you. With an 'as-left' calibration of 2x4 measurements and an extensive preventative maintenance, we guarantee your pipette is in perfect order at an economical cost.

Pro

Preventative maintenance, economic calibration and adjustment according to ISO 8655

As with the VWR® Eco, we conduct extensive preventative maintenance to ensure your pipettes are always in perfect condition. Additionally we conduct an 'as-left' calibration of 3x10 measurements that is according to ISO 8655.

Care

Ensuring your pipettes are in top condition

Calibration is a standard in quality assurance, but what about preventative maintenance? A frequent calibration is important to ensure the accuracy and repeatability of a pipette. Proper preventative maintenance is often something that is underestimated when doing the calibration of a pipette. VWR® Care will help you, when doing your own calibrations, by ensuring a clean and perfectly running pipette.

Compliant

GLP/GMP total insurance plan according to ISO 8655

Compliance completely according GLP/GMP requirements which means as-found calibration with 3x10 measurements followed by preventative maintenance and an 'as-left' calibration with 3x10 measurements. You will receive 2 calibration certificates, one of the 'as-found' and one of the 'as-left' calibration.

Get the highest calibration standard: ISO 17025 accredited

As an option we can offer calibration and certification according to ISO/IEC 17025.

Double calibration certificates and repair guidelines

For all plans we will check the calibration results against the ISO 8655 specifications. In case of an out of specification situation we will adjust the pipette and recalibrate. You will receive in that case 2 calibration certificates, one from before and one from after adjustment.

In case of repairs exceeding €100 per device we will send you a free quotation. Below this value and we will repair the pipette directly without informing you upfront, this to keep the shortest turnaround time.

Custom calibration or specific requirements, no problem!

If you have specific requirements, we offer custom calibration services that are tailored to your needs. Please contact us for more information or request a quote via vwr.com/pipet_services

Description	Pipette Insurance Plans				
	VWR® Light	VWR® Eco	VWR® Pro	VWR® Compliant	VWR® Care
As-found calibration					
According to ISO 8655 (3 volumes with 10 measurements)				•	
Checked against ISO 8655 specifications				•	
Calibration report				•	
Preventative maintenance					
Taking apart the pipette and check on worn/defective parts*		•	•	•	•
Professional cleaning of internal and external parts		•	•	•	•
Lubrication of seals, O-rings and piston, if applicable		•	•	•	•
Assembling the pipette		•	•	•	•
Leak & functional testing		•	•	•	•
As-left calibration					
Calibration according ISO 8655 (3 volumes min., mid. and max. with 10 measurements)			•	•	
Quick calibration (2 volumes min., max. with 4 measurements)	•	•			
Checking against ISO 8655- specifications	•	•	•	•	
Calibration report	•	•	•	•	
Adjustment and recalibration when needed	•	•	•	•	
Calibration report 'after adjustment'	•	•	•	•	
ISO 17025 accreditation					
Calibration procedure and certificate with ISO 17025 accreditation	Optional	Optional	Optional	Optional	n/a

Pipette tips



These tips are made of high quality 100% pure virgin medical grade PP. Made in the highest quality moulds, these tips can be used whenever the work demands a higher standard.

- A wider seal ensures that tips will seal easily and consistently without leaking
- Guaranteed free of detectable DNA, DNase/ RNase, endotoxins and heavy metals
- Graduated tips only: Graduations allow a visual check of pipetting accuracy
- Sterile products are tested for endotoxin (pyrogen) contamination and are certified to USP standards
- Resins are pre-tested for metal contamination
- Certificates are on file by lot number for all test results

Items (pipette tips and boxes) can be autoclaved at 122 °C for a maximum of 20 minutes at 15 psi.*

Please note: A steam cycle should be used. Always air-dry these items. Do not use a dry cycle or glassware cycle as deformation can occur to plastics that are heated for extended periods.

Tip styles:

Bevel Point™: Pipette tips that feature bevelled points are designed to retain less fluid and are a good choice for a multitude of procedures.

UltraFine™: Pipette tips with UltraFine™ point feature a thin flexible section at the end that is non bevelled and very flexible. This helps you dispense the last tiny amount of sample from the tip.

FlexTop™: These ultimate tips feature a uniquely thin and flexible top that conforms to the pipette barrel unlike any other tips. This design allows them to mount and eject from most pipettes with forces that help eliminate the potential for repetitive strain injuries.

Wide orifice: Extra wide opening allows you to pipette macrophages or sticky DNA materials. Bevelled end helps eliminate carry-over from viscous solutions.

Packaging options:

Bulk: Tips are either supplied in resealable PE bags (1000 tips) or in one large bag inside a corrugated container (10 000 tips). These packaging options are not recommended if you plan to store the tips for long periods and if warping is a concern.

Racks (96 + 192 tips per rack): These racks, with smooth rounded edges, have heavy hook hinges that are extremely durable and an ergonomic snap latch that won't catch gloves. Strong enough to be autoclaved many times. The separate rack insert includes a bevelled top and extra sturdy surface for multi channel pipetting.

Stack racks: These high quality racks need to be assembled by the user. You simply have to insert the fully racked refills into the rack. Since the tips are never touched, you do not have to be concerned about contamination from your hands or latex gloves. These stacks are very stable so you can pipette with a multi-channel pipette directly from the stack.

Stack rack refills: These refills are a slimmed down version of the Stack racks. Neatly packed, ready for you to refill the racks you already have.

Next Generation refills: Next Generation refill systems refill VWR and other brands of pipette tip racks. Their low carbon footprint makes them an ideal solution to waste reduction goals for the lab. Users don't need gloves to refill tip racks - Next Generation refills racks without users having to touch the new tips. The small footprint extends to the packaging, with a reclosable box that helps maximise storage space in crowded laboratories.

Individually wrapped: Tips are individually packaged in thermal sealed PE bags. The tips have been radiation sterilised.

* Macro tips (1 - 5 and 5 - 10 ml) are supplied in composite racks (fibre carton). These racks are not autoclavable.





Tip style	Volume (µl)	Sterile	Length (mm)	Packed	Pk	Cat. No.
0,1 - 10 µl						
UltraFine™	0,1 - 10	-	31,42	Bulk	1.000	613-0364
UltraFine™	0,1 - 10	-	31,42	12 racks, 96 each	1.152	613-0334
UltraFine™	0,1 - 10	+	31,42	12 racks, 96 each	1.152	613-0335
UltraFine™	0,1 - 10	-	31,42	6 refills, 96 each (Next Generation)	576	613-2104
UltraFine™	0,1 - 10	-	31,42	13 refills, 96 each (Next Generation)	1.248	613-1646
UltraFine™	0,1 - 10	+	31,42	13 refills, 96 each (Next Generation)	1.248	613-1647
UltraFine™, extra long	0,1 - 10	-	47,60	Bulk	1.000	613-2135
UltraFine™, extra long	0,1 - 10	-	47,60	10 racks, 96 each	960	613-2136
UltraFine™, extra long	0,1 - 10	+	47,60	10 racks, 96 each	960	613-2137
Extended length, with Tubegard™ ring (pipette protection)	0,1 - 10	-	38,10	Bulk	1.000	613-0259
Extended length, with Tubegard™ ring (pipette protection)	0,1 - 10	-	38,10	10 racks, 96 each	960	613-0260
Extended length, with Tubegard™ ring (pipette protection)	0,1 - 10	+	38,10	10 racks, 96 each	960	613-0261
Extended length, with Tubegard™ ring (pipette protection)	0,1 - 10	-	38,10	14 refills, 96 each (Next Generation)	1.344	613-0735
Extended length, with Tubegard™ ring (pipette protection)	0,1 - 10	+	38,10	14 refills, 96 each (Next Generation)	1.344	613-0736
0,5 - 10 µl						
Bevel Point™, graduated	0,5 - 10	-	44,83	Bulk	1.000	613-0254
Bevel Point™, graduated	0,5 - 10	-	44,83	10 racks, 96 each	960	613-0255
Bevel Point™, graduated	0,5 - 10	+	44,83	10 racks, 96 each	960	613-0256
1 - 100 µl						
Bevel Point™, yellow (Eppendorf/Brand)	1 - 100	-	49,66	Bulk	1.000	613-0252
Bevel Point™, yellow (Eppendorf/Brand)	1 - 100	-	49,66	10 racks, 96 each	960	613-0253
Bevel Point™, yellow (Eppendorf/Brand)	1 - 100	+	49,66	10 racks, 96 each	960	613-0352
Bevel Point™, yellow (Eppendorf/Brand)	1 - 100	-	49,66	10 refills, 96 each (Next Generation)	960	613-0734
1 - 200 µl						
UltraFine™, FlexTop™	1 - 200	-	49,66	10 refills, 96 each (Next Generation)	960	613-0725
UltraFine™, FlexTop™	1 - 200	+	49,66	10 refills, 96 each (Next Generation)	960	613-0726
Bevel Point™	1 - 200	-	49,66	10 refills, 96 each (Next Generation)	960	613-0740
Bevel Point™ (yellow)	1 - 200	-	49,66	Bulk	1.000	613-0239
Bevel Point™ (yellow)	1 - 200	-	49,66	Bulk	10.000	613-0240
Bevel Point™ (yellow)	1 - 200	-	49,66	10 racks, 96 each	960	613-0241
Bevel Point™ (yellow)	1 - 200	+	49,66	10 racks, 96 each	960	613-0242
Bevel Point™ (yellow)	1 - 200	-	49,66	5 racks, 192 each	960	613-0237
Bevel Point™ (yellow)	1 - 200	+	49,66	5 racks, 192 each	960	613-0238
Bevel Point™ (yellow)	1 - 200	-	49,66	10 Stack racks, 96 each	960	613-0243
Bevel Point™ (yellow)	1 - 200	-	49,66	10 Stack rack refills, 96 each	960	613-0244
Bevel Point™ (yellow)	1 - 200	-	49,66	5 Stack racks, 192 each	960	613-0235
Bevel Point™ (yellow)	1 - 200	-	49,66	5 Stack rack refills, 192 each	960	613-0236
Bevel Point™ (yellow)	1 - 200	-	49,66	10 refills, 96 each (Next Generation)	960	613-0732
Bevel Point™ (yellow)	1 - 200	+	49,66	10 refills, 96 each (Next Generation)	960	613-0733
Bevel Point™ (yellow)	1 - 200	+	49,66	Individually wrapped	200	613-0230
Bevel Point™, graduated	1 - 200	-	49,66	Bulk	1.000	613-0298
Bevel Point™, graduated	1 - 200	-	49,66	Bulk	10.000	525-0144
Bevel Point™, graduated	1 - 200	-	49,66	10 racks, 96 each	960	613-0299
Bevel Point™, graduated	1 - 200	+	49,66	10 racks, 96 each	960	613-0300
Bevel Point™, graduated	1 - 200	-	49,66	5 racks, 192 each	960	613-0296
Bevel Point™, graduated	1 - 200	+	49,66	5 racks, 192 each	960	613-0297
Bevel Point™, graduated	1 - 200	-	49,66	10 Stack racks, 96 each	960	613-0301
Bevel Point™, graduated	1 - 200	-	49,66	10 Stack rack refills, 96 each	960	613-0302
Bevel Point™, graduated	1 - 200	-	49,66	5 Stack racks, 192 each	960	613-0294
Bevel Point™, graduated	1 - 200	-	49,66	5 Stack rack refills, 192 each	960	613-0295
Bevel Point™, graduated	1 - 200	-	49,66	10 refills, 96 each (Next Generation)	960	613-0742
Bevel Point™, graduated	1 - 200	+	49,66	10 refills, 96 each (Next Generation)	960	613-0743
Bevel Point™, graduated	1 - 200	+	49,66	Individually wrapped	200	613-0289
Bevel Point™, wide orifice	1 - 200	-	49,66	10 refills, 96 each (Next Generation)	960	613-0731
UltraFine™, FlexTop™	1 - 200	-	49,66	5 refills, 96 each (Next Generation)	480	613-2108
Bevel Point™ (yellow)	1 - 200	-	49,66	5 refills, 96 each (Next Generation)	480	613-2106
Bevel Point™, graduated	1 - 200	-	49,66	5 refills, 96 each (Next Generation)	480	613-2107
Bevel Point™, wide orifice	1 - 200	-	49,66	Bulk	1.000	736-0204
Bevel Point™, wide orifice	1 - 250	-	49,66	10 racks, 96 each	960	736-0205
Bevel Point™, wide orifice	1 - 200	+	49,66	10 racks, 96 each	960	736-0206
1 - 250 µl						
UltraFine™	1 - 250	-	52,07	10 refills, 96 each (Next Generation)	960	613-0744
1 - 300 µl						
UltraFine™, FlexTop™	1 - 300	-	71,12	Bulk	1.000	613-0331
UltraFine™, FlexTop™	1 - 300	-	71,12	6 racks, 96 each	576	613-0332
UltraFine™, FlexTop™	1 - 300	+	71,12	6 racks, 96 each	576	613-0333
UltraFine™, FlexTop™	1 - 300	-	71,12	6 refills, 96 each (Next Generation)	576	613-0723
UltraFine™, FlexTop™	1 - 300	+	71,12	6 refills, 96 each (Next Generation)	576	613-0724
100 - 1000 µl						
UltraFine™ (blue)	100 - 1000	-	75,95	Bulk	1.000	613-0340
UltraFine™ (blue)	100 - 1000	-	75,95	6 racks, 96 each	576	613-0341
UltraFine™ (blue)	100 - 1000	+	75,95	6 racks, 96 each	576	613-0342

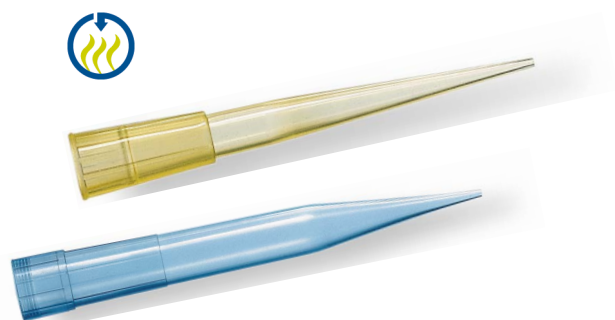
Tip style	Volume (µl)	Sterile	Length (mm)	Packed	Pk	Cat. No.
100 - 1000 µl						
UltraFine™, graduated	100 - 1000	-	88,90	Bulk	1.000	613-0343
UltraFine™, graduated	100 - 1000	-	88,90	6 racks, 96 each	576	613-0344
UltraFine™, graduated	100 - 1000	+	88,90	6 racks, 96 each	576	613-0345
100 - 1250 µl						
UltraFine™, FlexTop™, extended	100 - 1250	-	88,90	Bulk	1.000	613-0272
UltraFine™, FlexTop™, extended	100 - 1250	-	88,90	6 racks, 96 each	576	613-0273
UltraFine™, FlexTop™, extended	100 - 1250	+	88,90	6 racks, 96 each	576	613-0274
UltraFine™, FlexTop™, extended	100 - 1250	-	88,90	5 refills, 96 each (Next Generation)	480	613-0738
UltraFine™, FlexTop™, extended	100 - 1250	+	88,90	5 refills, 96 each (Next Generation)	480	613-0739
UltraFine™, FlexTop™, extended	100 - 1250	+	88,90	Individually wrapped	200	613-0367
Wide orifice	100 - 1250	-	88,90	5 refills, 96 each (Next Generation)	480	613-0737
1000 - 5000 µl						
Standard	1000 - 5000	-	144,27	Bulk	250	613-0830
Standard	1000 - 5000	-	144,27	49/rack	49	613-2147
Standard	1000 - 5000	+	144,27	49/rack	49	613-2148
Graduated (Eppendorf/Sartorius)	1000 - 5000	-	123,06	Bulk	250	613-0339
Graduated (Eppendorf/Sartorius)	1000 - 5000	-	123,06	49/rack	49	613-2145
Graduated (Eppendorf/Sartorius)	1000 - 5000	+	123,06	49/rack	49	613-2146
Graduated (Gilson® Classic/Rainin® Classic)	1000 - 5000	-	123,06	Bulk	250	613-0338
Graduated (Gilson® Classic/Rainin® Classic)	1000 - 5000	-	123,06	49/rack	49	613-2143
Graduated (Gilson® Classic/Rainin® Classic)	1000 - 5000	+	123,06	49/rack	49	613-2144
5000 - 10000 µl						
Standard	5000 - 10000	-	155,70	Bulk	250	613-0831
Standard	5000 - 10000	-	155,70	36/rack	36	613-2149
Standard	5000 - 10000	+	155,70	36/rack	36	613-2150

Description	Pk	Cat. No.
Accessories		
Refillable rack for 10 µl pipette tips, autoclavable	12	613-2445
Refillable racks for 1 - 250 µl tips, empty (Next Generation)	10	613-0307
Refillable rack for 1000 - 1250 µl pipette tips	6	613-1689
Refillable racks for 100 - 1250 µl tips, empty (Next Generation)	6	613-0306
Refillable racks, white PP, autoclavable, for 10, 100, 200, 300 µl tips (Next Generation)	10	613-5440
Refillable anti-wobble tip rack for mid-size tips (200 µl)	10	613-1592
Refillable racks, yellow PP, autoclavable, for 10, 100, 200, 300 µl tips (Next Generation)	10	613-5441
Refillable racks, blue PP, autoclavable, for 10, 100, 200, 300 µl tips (Next Generation)	10	613-5442
Refillable racks, green PP, autoclavable, for 10, 100, 200, 300 µl tips (Next Generation)	10	613-5443
Refillable racks, white PP, autoclavable, for 1000, 1200, 1250 µl tips (Next Generation)	6	613-5444
Refillable racks, yellow PP, autoclavable, for 1000, 1200, 1250 µl tips (Next Generation)	6	613-5445
Refillable racks, blue PP, autoclavable, for 1000, 1200, 1250 µl tips (Next Generation)	6	613-5446
Refillable racks, green PP, autoclavable, for 1000, 1200, 1250 µl tips (Next Generation)	6	613-5447

Pipette tips, universal

PP, autoclavable.

- Manufactured without lubricants
- Cadmium-free pigments
- Environmentally friendly packaging system



Volume (µl)	Length (mm)	Tip colour	Packed	Pk	Cat. No.
2 - 200	50	Yellow	Bulk	1.000	612-5755
50 - 1000	70	Blue	Bulk (2×500)	1.000	612-5756
Description		For		Pk	Cat. No.
Accessories					
Tip-Box N, PP, with push on lid, stackable and autoclavable, for 200 µl tips		2 - 200 µl tips		1	613-2287
Tip-Box N, PP, with push on lid, stackable and autoclavable, for 1000 µl tips		50 - 1000 µl tips		1	613-2288

Pipette tips for Rainin® LTS® pipettes



These VWR® pipette tips are made of clear, pre-tested PP resin and fit Rainin® LTS® pipettes.

- Fit and eject with significantly less force than most conventional pipette tips
- Ultra-fine points and super-clear resin for excellent viewing of sample
- Free of RNase, DNase, endotoxins and trace metals
- Available in different packaging options
- Tested for ATP
- Autoclavable

Unlike pre-sterilised pipette tips from other brands, these tips use a validated sterile process (ISO) and can be used for medical research and diagnostics.

Packaging options:

Bulk: Tips are supplied in resealable PE bags (1000 tips). These packaging options are not recommended if you plan to store the tips for long periods and if warping is a concern.

Racks (96 tips per rack): These colour coded racks, with smooth rounded edges, have heavy hook hinges that are extremely durable and an ergonomic snap latch that won't catch gloves. Strong enough to be autoclaved many times. The separate rack insert includes a bevelled top and extra sturdy surface for multi-channel pipetting.

Next Generation refills: Next Generation refill systems refill VWR and other brands of pipette tip racks. Their low carbon footprint makes them an ideal solution to waste reduction goals for the lab. Users don't need gloves to refill tip racks - Next Generation refills racks without users having to touch the new tips.



Tip style	Volume (µl)	Sterile	Length (mm)	Packed	Pk	Cat. No.
20 µl						
Rainin® LTS® style	0,5 - 20	-	48,26	Bulk	1.000	613-0578
Rainin® LTS® style	0,5 - 20	-	48,26	10 racks, 96 each	960	613-0576
Rainin® LTS® style	0,5 - 20	+	48,26	10 racks, 96 each	960	613-0577
Rainin® LTS® style	0,2 - 20	-	48,26	Mini refill (5 refills, 96 each)	480	613-2109
Rainin® LTS® style	0,2 - 20	-	48,26	Next Generation refill (11 refills, 96 each)	1.056	613-0721
Rainin® LTS® style	0,2 - 20	+	48,26	Next Generation refill (11 refills, 96 each)	1.056	613-0722
200 / 250 µl						
Rainin® LTS® style	1 - 200	-	51,31	10 racks, 96 each	960	613-0579
Rainin® LTS® style	1 - 200	+	51,31	10 racks, 96 each	960	613-0580
Rainin® LTS® style	1 - 200	-	51,31	Bulk	1.000	613-0581
Rainin® LTS® style	0,5 - 250	-	51,31	Next Generation refill (10 refills, 96 each)	960	613-0727
Rainin® LTS® style	0,5 - 250	+	51,31	Next Generation refill (10 refills, 96 each)	960	613-0728
Rainin® LTS® style	1 - 200	-	51,31	Mini refill (5 refills, 96 each)	480	613-2110
300 µl						
Rainin® LTS® style	1 - 300	-	61	Mini refill (1 refill with 384 tips)	384	613-5429
Rainin® LTS® style	1 - 300	-	61	Next Generation refill (1 refill with 768 tips)	768	613-5430
Rainin® LTS® style	1 - 300	+	61	Next Generation refill (1 refill with 768 tips)	768	613-5431
Rainin® LTS® style	1 - 300	-	61	Bulk	1.000	613-5432
Rainin® LTS® style	1 - 300	-	61	10 racks, 96 each	960	613-5433
Rainin® LTS® style	1 - 300	+	61	10 racks, 96 each	960	613-5434
1000 µl						
Rainin® LTS® style	100 - 1000	-	88,90	6 racks, 96 each	576	613-0582
Rainin® LTS® style	100 - 1000	+	88,90	6 racks, 96 each	576	613-0583
Rainin® LTS® style	100 - 1000	-	88,90	Bulk	1.000	613-0584
Rainin® LTS® style	100 - 1000	-	88,90	Next Generation refill (5 refills, 96 each)	480	613-0729
Rainin® LTS® style	100 - 1000	+	88,90	Next Generation refill (5 refills, 96 each)	480	613-0730
Accessories						
Refillable racks for 1 - 250 µl tips, empty (Next Generation)					10	613-0307
Refillable racks for 100 - 1250 µl tips, empty (Next Generation)					6	613-0306

Pipette tips, low retention



These tips are made with a special resin that reduces the potential for sample retention inside the tip. They will help users reduce sample loss when performing protein research. They are lot-certified to be free of protease as well as nuclease.

- A wider seal ensures that tips will seal easily and consistently without leaking
- Guaranteed free of detectable DNA, DNase/RNase, endotoxins and heavy metals
- Graduated tips only: Graduations allow a visual check of pipetting accuracy
- Sterile products are tested for endotoxin (pyrogen) contamination and are certified to USP standards
- Resins are pre-tested for metal contamination
- Certificates are on file by lot number for all test results



Items (pipette tips and boxes) can be autoclaved at 122 °C for a maximum of 20 minutes at 15 psi.

Please note: A steam cycle should be used. Always air dry these items. Do not use a dry cycle or glassware cycle as deformation can occur to plastics that are heated for extended periods.

Tip styles:

Bevel Point™: Pipette tips that feature bevelled points are designed to retain less fluid and are a good choice for a multitude of procedures.

UltraFine™: Pipette tips with UltraFine™ point feature a thin flexible section at the end that is non bevelled and very flexible. This helps you dispense the last tiny amount of sample from the tip.

Wide orifice: Extra wide opening allows you to pipette macrophages or sticky DNA materials. Bevelled end helps eliminate carry-over from viscous solutions.

Packaging options

Bulk: Tips are supplied in resealable PE bags (1000 tips). This packaging option is not recommended if you plan to store the tips for long periods and if warping is a concern.

Racks (96 tips per rack): These racks, with smooth rounded edges, have heavy hook hinges that are extremely durable and an ergonomic snap latch that won't catch gloves. Strong enough to be autoclaved many times. The separate rack insert includes a bevelled top and extra sturdy surface for multi-channel pipetting.

Next Generation refills: Next Generation refill systems refill VWR and other brands of pipette tip racks. Their low carbon footprint makes them an ideal solution to waste reduction goals for the lab. Users don't need gloves to refill tip racks - Next Generation refills racks without users having to touch the new tips. The small footprint extends to the packaging, with a reclosable box that helps maximise storage space in crowded laboratories.

Tip style	Volume (µl)	Sterile	Length (mm)	Packed	Pk	Cat. No.
0,1 - 10 µl						
Low retention, graduated	0,1 - 10	-	31,37	Bulk	1.000	613-2294
Low retention, graduated	0,1 - 10	-	31,37	12 racks, 96 each	1.152	613-2295
Low retention, graduated	0,1 - 10	+	31,37	12 racks, 96 each	1.152	613-2296
Low retention, graduated	0,1 - 10	-	31,37	6 refills, 96 each (Next Generation)	576	613-2133
Low retention, graduated	0,1 - 10	-	31,37	13 refills, 96 each (Next Generation)	1.248	613-1644
Low retention, graduated	0,1 - 10	+	31,37	13 refills, 96 each (Next Generation)	1.248	613-1645
Low retention, extra long	0,1 - 10	-	43,18	Bulk	1.000	613-2140
Low retention, extra long	0,1 - 10	-	43,18	10 racks, 96 each	960	613-2141
Low retention, extra long	0,1 - 10	+	43,18	10 racks, 96 each	960	613-2142
1 - 200 µl						
Bevel Point™, low retention	1 - 200	-	49,66	Bulk	1.000	613-0891
Bevel Point™, low retention	1 - 200	-	49,66	10 racks, 96 each	960	613-0285
Bevel Point™, low retention	1 - 200	+	49,66	10 racks, 96 each	960	613-0286
Bevel Point™, low retention	1 - 200	-	49,66	5 refills, 96 each (Next Generation)	480	613-2132
Bevel Point™, low retention	1 - 200	-	49,66	10 refills, 96 each (Next Generation)	960	613-0741
1 - 250 µl						
UltraFine™, low retention	1 - 250	-	49,66	5 refills, 96 each (Next Generation)	480	613-2134
UltraFine™, low retention	1 - 250	-	49,66	10 refills, 96 each (Next Generation)	960	613-0745
100 - 1250 µl						
UltraFine™, low retention	100 - 1250	-	88,90	Bulk	1.000	613-0377
UltraFine™, low retention	100 - 1250	-	88,90	6 racks, 96 each	576	613-0378
UltraFine™, low retention	100 - 1250	+	88,90	6 racks, 96 each	576	613-0379
UltraFine™, low retention	100 - 1250	-	88,90	5 refills, 96 each (Next Generation)	480	613-0746
UltraFine™, low retention	100 - 1250	+	88,90	5 refills, 96 each (Next Generation)	480	613-0747

Description	Pk	Cat. No.
Accessories		
Refillable rack for 10 µl pipette tips, autoclavable	12	613-2445
Refillable racks for 1 - 250 µl tips, empty (Next Generation)	10	613-0307
Refillable rack for 1000 - 1250 µl pipette tips	6	613-1689
Refillable racks for 100 - 1250 µl tips, empty (Next Generation)	6	613-0306
Refillable racks, white PP, autoclavable, for 10, 100, 200, 300 µl tips (Next Generation)	10	613-5440
Refillable anti-wobble tip rack for mid-size tips (200 µl)	10	613-1592
Refillable racks, yellow PP, autoclavable, for 10, 100, 200, 300 µl tips (Next Generation)	10	613-5441
Refillable racks, blue PP, autoclavable, for 10, 100, 200, 300 µl tips (Next Generation)	10	613-5442
Refillable racks, green PP, autoclavable, for 10, 100, 200, 300 µl tips (Next Generation)	10	613-5443
Refillable racks, white PP, autoclavable, for 1000, 1200, 1250 µl tips (Next Generation)	6	613-5444
Refillable racks, yellow PP, autoclavable, for 1000, 1200, 1250 µl tips (Next Generation)	6	613-5445
Refillable racks, blue PP, autoclavable, for 1000, 1200, 1250 µl tips (Next Generation)	6	613-5446
Refillable racks, green PP, autoclavable, for 1000, 1200, 1250 µl tips (Next Generation)	6	613-5447

Pipette tips for Rainin® LTS® pipettes, low retention



These tips are made with a special resin that reduces the potential for sample retention inside the tip. They will help users reduce sample loss when performing protein research. These tips fit Rainin® LTS® pipettes.

- Fit and eject with significantly less force than most conventional pipette tips
- Ultra-fine points and super-clear resin for excellent viewing of sample
- Free of RNase, DNase, endotoxins and trace metals
- Lot certified to be free of protease and nuclease
- Tested for ATP
- Autoclavable

Unlike pre-sterilised pipette tips from other brands, these tips use a validated sterile process (ISO) and can be used for medical research and diagnostics.

Packaging options:

Racks (96 tips per rack): These colour coded racks, with smooth rounded edges, have heavy hook hinges that are extremely durable and an ergonomic snap latch that won't catch gloves. Strong enough to be autoclaved many times. The separate rack insert includes a bevelled top and extra sturdy surface for multi-channel pipetting.



Next Generation refills: Next Generation refill systems refill VWR and other brands of pipette tip racks. Their low carbon footprint makes them an ideal solution to waste reduction goals for the lab. Users don't need gloves to refill tip racks - Next Generation refills racks without users having to touch the new tips.

Tip style	Volume (µl)	Sterile	Length (mm)	Packed	Pk	Cat. No.
20 µl						
Rainin® LTS® style, low retention	0,5 - 20	-	48,26	10 racks, 96 each	960	613-5786
Rainin® LTS® style, low retention	0,5 - 20	+	48,26	10 racks, 96 each	960	613-5787
Rainin® LTS® style, low retention	0,5 - 20	-	48,26	Next Generation refill (10 refills, 96 each)	960	613-5784
200 µl						
Rainin® LTS® style, low retention	1 - 200	-	51,31	10 racks, 96 each	960	613-5790
Rainin® LTS® style, low retention	1 - 200	+	51,31	10 racks, 96 each	960	613-5791
Rainin® LTS® style, low retention	1 - 200	-	51,31	Next Generation refill (10 refills, 96 each)	960	613-5788
300 µl						
Rainin® LTS® style, low retention	1 - 300	-	61	Bulk	1.000	613-5437
Rainin® LTS® style, low retention	1 - 300	-	61	10 racks, 96 each	960	613-5438
Rainin® LTS® style, low retention	1 - 300	+	61	10 racks, 96 each	960	613-5439
Rainin® LTS® style, low retention	1 - 300	-	61	Mini refill (1 refill with 384 tips)	384	613-5435
Rainin® LTS® style, low retention	1 - 300	-	61	Next Generation refill (1 refill with 768 tips)	768	613-5436
1000 µl						
Rainin® LTS® style, low retention	100 - 1000	-	88,90	6 racks, 96 each	576	613-5794
Rainin® LTS® style, low retention	100 - 1000	+	88,90	6 racks, 96 each	576	613-5795
Rainin® LTS® style, low retention	100 - 1000	-	88,90	Next Generation refill (5 refills, 96 each)	480	613-5792

Description	Pk	Cat. No.
Accessories		
Refillable racks for 1 - 250 µl tips, empty (Next Generation)	10	613-0307
Refillable racks for 100 - 1250 µl tips, empty (Next Generation)	6	613-0306

Capillary tips for gel loading



Non bevelled capillary section, non graduated, compatibility type H.

- The thin capillary fits between gel plates to allow the user to accurately fill the wells between the teeth of the gel comb
- Wide sealing areas to also fit older pipette barrels



Volume (µl)	Sterile	Length (mm)	Packed	Pk	Cat. No.
1 - 200	-	30	Bulk	1.000	613-0257
1 - 200	-	30	6 racks, 96 each	576	732-0508
1 - 200	+	30	6 racks, 96 each	576	732-0509

Filter tips



All tips are made of high quality 100% pure virgin medical grade PP. Made in the highest quality moulds, these tips can be used whenever the work demands a higher standard. Sterile products are tested for endotoxin (pyrogen) contamination and certified to USP results. Resins are pre-tested for metal contamination. Certificates are on file by lot number for all test results.

- A wider seal ensures that tips will seal easily and consistently without leaking, on old as well as new pipettes
- Guaranteed free of detectable DNA, DNase/RNase, endotoxins and heavy metals



Tip style	Volume (µl)	Sterile	Length (mm)	Packed	Pk	Cat. No.
Racked						
UltraFine™, extended	0,1 - 10	-	38,10	10 racks, 96 each	960	732-0542
UltraFine™, graduated	0,1 - 10	-	31,42	12 racks, 96 each	1.152	732-0515
Bevel Point™, graduated	0,5 - 10	-	44,83	10 racks, 96 each	960	732-0518
Bevel Point™	1 - 40	-	49,66	10 racks, 96 each	960	732-0527
Bevel Point™	1 - 50	-	49,66	10 racks, 96 each	960	732-0568
Bevel Point™	1 - 100	-	49,66	10 racks, 96 each	960	732-0522
Bevel Point™	1 - 160	-	49,66	10 racks, 96 each	960	732-0529
Bevel Point™, wide orifice	1 - 200	-	49,66	10 racks, 96 each	960	732-0559
UltraFine™	1 - 200	-	52,07	10 racks, 96 each	960	732-0540
Bevel Point™	1 - 300	-	52,07	10 racks, 96 each	960	732-0536
UltraFine™	100 - 1000	-	88,90	6 racks , 96 each	576	732-0533
Racked, sterile						
UltraFine™, extended	0,1 - 10	+	38,10	10 racks, 96 each	960	732-0543
UltraFine™, graduated	0,1 - 10	+	31,42	12 racks, 96 each	1.152	732-0516
Micro	0,1 - 30	+	38,10	10 racks, 96 each	960	732-1100
Bevel Point™, graduated	0,5 - 10	+	44,83	10 racks, 96 each	960	732-0519
UltraFine™, graduated	0,5 - 10	+	49,66	10 racks, 96 each	960	732-1101
Bevel Point™	1 - 40	+	49,66	10 racks, 96 each	960	732-0528
Bevel Point™	1 - 40	+	49,66	5 racks, 192 each	960	732-0525
Bevel Point™	1 - 50	+	49,66	10 racks, 96 each	960	732-0520
UltraFine™, FlexTop™, graduated	1 - 50	+	49,66	10 racks, 96 each	960	732-1105
Standard	1 - 100	+	49,66	10 racks, 96 each	960	732-1103
Bevel Point™, graduated	1 - 100	+	49,66	10 racks, 96 each	960	732-1102
UltraFine™, extended	1 - 100	+	83,82	6 racks, 96 each	576	732-1107
Bevel Point™	1 - 100	+	49,66	10 racks, 96 each	960	732-0523
Bevel Point™	1 - 160	+	49,66	5 racks, 192 each	960	732-0573
Bevel Point™	1 - 160	+	49,66	10 racks, 96 each	960	732-0530
UltraFine™	1 - 200	+	52,07	10 racks, 96 each	960	732-0541
UltraFine™, extended	1 - 200	+	83,82	6 racks , 96 each	576	732-0610
Bevel Point™, wide orifice	1 - 200	+	49,66	10 racks, 96 each	960	732-0544
Bevel Point™	1 - 250	+	52,07	10 racks, 96 each	960	732-0537
UltraFine™, extended	1 - 300	+	71,12	6 racks , 96 each	576	732-0611
UltraFine™, FlexTop™	100 - 1000	+	75,95	6 racks, 96 each	576	732-1106
UltraFine™	100 - 1000	+	88,90	6 racks , 96 each	576	732-0534
Wide orifice	100 - 1000	+	88,90	6 racks, 96 each	576	613-0752
Aerosol-barrier	100 - 1200	+	88,90	6 racks, 96 each	576	613-0753
Sartorius® type	1250	+	88,90	6 racks, 96 each	576	732-2894
Individually wrapped, sterile						
UltraFine™, extended	0,1 - 10	+	38,10	Individually wrapped	200	732-0566
UltraFine™, graduated	0,1 - 10	+	31,42	Individually wrapped	200	732-0562
Bevel Point™	1 - 40	+	49,66	Individually wrapped	200	732-0524
Bevel Point™	1 - 50	+	49,66	Individually wrapped	200	732-0569

Tip style	Volume (µl)	Sterile	Length (mm)	Packed	Pk	Cat. No.
Individually wrapped, sterile						
Bevel Point™	1 - 100	+	49,66	Individually wrapped	200	732-0570
Bevel Point™	1 - 160	+	49,66	Individually wrapped	200	732-0572
Bevel Point™, wide orifice	1 - 200	+	49,66	Individually wrapped	200	732-0560
UltraFine™	1 - 200	+	52,07	Individually wrapped	200	732-0538
Bevel Point™	1 - 300	+	52,07	Individually wrapped	200	732-0574
UltraFine™	100 - 1000	+	88,90	Individually wrapped	200	732-0531

Filter tips, Next Generation refill

These aerosol filter tips, with their patented filters made from high molecular weight polyethylene, offer complete protection from sample carry-over. The filter pores have an average size of 10 µm, so even radionucleotides are captured before reaching the pipette barrel. The tips are ideal for PCR and DNA manipulation.

- Easy to use refill system - new pipette tip racks, inserts and transfer cover preventing tip wobbling during refill and keeping tips clean
- 95% renewable materials - compostable tip base from organic non petroleum resin, carton made from 100% recycled fibres, printing is soy-based vegetable ink
- Certified DNA-/RNase-/DNase-free

Next Generation is a complete system designed with a low carbon footprint that includes the first ever use of bio-plastic (non petroleum) compostable resin in pipette tip refills. Next Generation's small footprint extends to the package, with a reclosable box that helps maximise storage space in crowded labs.

Compact, reclosable packaging with reduced overall weight.



Tip style	Volume (µl)	Sterile	Length (mm)	Compatibility	Packed	Pk	Cat. No.
Extended, Tubegard™ ring	0,1 - 10	+	38,10	AF1	10 refills, 96 each	960	732-1481
UltraFine™, graduated	0,1 - 10	+	31,42	AF1	10 refills, 96 each	960	732-1476
Bevel Point™	1 - 40	+	49,66	AF3	10 refills, 96 each	960	732-1477
Bevel Point™, graduated	1 - 100	+	49,66	AF19	10 refills, 96 each	960	732-1482
UltraFine™	1 - 200	+	52,07	AF7	10 refills, 96 each	960	732-1479
Bevel Point™	1 - 300	+	52,07	AF8	10 refills, 96 each	960	732-1478
UltraFine™	100 - 1000	+	88,90	AF9	8 refills, 96 each	768	732-1480

Description	Pk	Cat. No.
Accessories		
Refillable racks for 1 - 250 µl tips, empty (Next Generation)	10	613-0307
Refillable racks for 100 - 1250 µl tips, empty (Next Generation)	6	613-0306
Refillable racks, white PP, autoclavable, for 10, 100, 200, 300 µl tips (Next Generation)	10	613-5440
Refillable racks, yellow PP, autoclavable, for 10, 100, 200, 300 µl tips (Next Generation)	10	613-5441
Refillable racks, blue PP, autoclavable, for 10, 100, 200, 300 µl tips (Next Generation)	10	613-5442
Refillable racks, green PP, autoclavable, for 10, 100, 200, 300 µl tips (Next Generation)	10	613-5443
Refillable racks, white PP, autoclavable, for 1000, 1200, 1250 µl tips (Next Generation)	6	613-5444
Refillable racks, yellow PP, autoclavable, for 1000, 1200, 1250 µl tips (Next Generation)	6	613-5445
Refillable racks, blue PP, autoclavable, for 1000, 1200, 1250 µl tips (Next Generation)	6	613-5446
Refillable racks, green PP, autoclavable, for 1000, 1200, 1250 µl tips (Next Generation)	6	613-5447

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Filter tips for Rainin® LTS® pipettes



These sterile aerosol filter tips are made of clear, pre-tested PP resin and fit Rainin® LTS® pipettes.

- Fit and eject with significantly less force than most conventional pipette tips
- Ultra-fine points and super-clear resin for excellent viewing of sample
- Free of RNase, DNase, endotoxins, human DNA, protease and trace metals
- Tested for ATP

Unlike pre-sterilised pipette tips from other brands, these tips use a validated sterile process (ISO) and can be used for medical research and diagnostics.

Packaging options:

Racks (96 tips per rack): These colour coded racks, with smooth rounded edges, have heavy hook hinges that are extremely durable and an ergonomic snap latch that won't catch gloves. Strong enough to be autoclaved many times. The separate rack insert includes a bevelled top and extra sturdy surface for multi-channel pipetting.

Next Generation refills: Next Generation refill systems refill VWR and other brands of pipette tip racks. Their low carbon footprint makes them an ideal solution to waste reduction goals for the lab. Users don't need gloves to refill tip racks - Next Generation refills racks without users having to touch the new tips.



Tip style	Volume (µl)	Sterile	Length (mm)	Packed	Pk	Cat. No.
Rainin® LTS® style	1 - 20	+	48,26	10 racks, 96 each	960	732-0799
Rainin® LTS® style	1 - 20	+	48,26	Next Generation refill (10 refills, 96 each)	960	732-1483
Rainin® LTS® style	1 - 200	+	51,31	10 racks, 96 each	960	732-0800
Rainin® LTS® style	1 - 200	+	51,31	Next Generation refill (10 refills, 96 each)	960	732-1484
Rainin® LTS® style	1 - 300	+	61	10 racks, 96 each	960	732-2898
Rainin® LTS® style	1 - 300	+	61	Next Generation refill (10 refills, 96 each)	960	732-2897
Rainin® LTS® style	100 - 1000	+	88,90	6 racks, 96 each	576	732-0801
Rainin® LTS® style	100 - 1000	+	88,90	Next Generation refill (8 refills, 96 each)	768	732-1485

Description	Pk	Cat. No.
Accessories		
Refillable racks for 1 - 250 µl tips, empty (Next Generation)	10	613-0307
Refillable racks for 100 - 1250 µl tips, empty (Next Generation)	6	613-0306

Filter tips, low retention

Low retention tips offering unsurpassed fluid retention performance and proven aerosol blocking with endotoxin-free, 10 µm porous hydrophobic filter. Ideal for PCR and DNA manipulation.



- Transparent PP resins, with PE filter, sterile
- Up to 10 times less fluid retention than standard tips
- Sample can be completely recovered without cutting into tip
- Lot-certified purity (free from RNase/DNase, human DNA and endotoxin, non pyrogenic)
- Tips and racks are autoclavable to 121 °C for maximum 15 minutes (dry cycle is not recommended)



Tip style	Volume (µl)	Sterile	Length (mm)	Packed	Pk	Cat. No.
Low retention, extended	10	+	38,10	10 racks, 96 each	960	732-1487
Low retention	10	+	31,42	12 racks, 96 each	1.152	732-1486
Low retention	20	+	49,66	10 racks, 96 each	960	732-1488
Low retention	100	+	49,66	10 racks, 96 each	960	732-2385
Low retention	200	+	52,07	10 racks, 96 each	960	732-1489
Low retention	300	+	52,07	10 racks, 96 each	960	732-1490
Low retention	1000	+	88,90	6 racks, 96 each	576	732-1491

Filter tips for Rainin® LTS® pipettes, low retention



These low retention filter tips are made with a special resin that reduces the potential for sample retention inside the tip. They will help users reduce sample loss when performing protein research. These tips fit Rainin® LTS® pipettes.

- Fit and eject with significantly less force than most conventional pipette tips
- Ultra-fine points and super-clear resin for excellent viewing of sample
- Free of RNase, DNase, endotoxins, human DNA and trace metals
- Lot certified to be free of protease and nuclease
- Tested for ATP

Unlike pre-sterilised pipette tips from other brands, these tips use a validated sterile process (ISO) and can be used for medical research and diagnostics.

Packaging options:

Racks (96 tips per rack): These colour coded racks, with smooth rounded edges, have heavy hook hinges that are extremely durable and an ergonomic snap latch that won't catch gloves. Strong enough to be autoclaved many times. The separate rack insert includes a bevelled top and extra sturdy surface for multi-channel pipetting.



Next Generation refills: Next Generation refill systems refill VWR and other brands of pipette tip racks. Their low carbon footprint makes them an ideal solution to waste reduction goals for the lab. Users don't need gloves to refill tip racks - Next Generation refills racks without users having to touch the new tips.



Tip style	Volume (µl)	Sterile	Length (mm)	Packed	Pk	Cat. No.
Rainin® LTS® style, low retention	1 - 20	+	48,26	10 racks, 96 each	960	732-3340
Rainin® LTS® style, low retention	1 - 20	+	48,26	Next Generation refill (10 refills, 96 each)	960	732-3339
Rainin® LTS® style, low retention	1 - 200	+	51,31	10 racks, 96 each	960	732-3342
Rainin® LTS® style, low retention	1 - 200	+	51,31	Next Generation refill (10 refills, 96 each)	960	732-3341
Rainin® LTS® style, low retention	1 - 300	+	61	10 racks, 96 each	960	732-2896
Rainin® LTS® style, low retention	1 - 300	+	61	Next Generation refill (10 refills, 96 each)	960	732-2895
Rainin® LTS® style, low retention	100 - 1000	+	88,90	10 racks, 96 each	576	732-3344
Rainin® LTS® style, low retention	100 - 1000	+	88,90	Next Generation refill (10 refills, 96 each)	768	732-3343

Description	Pk	Cat. No.
Accessories		
Refillable racks for 1 - 250 µl tips, empty (Next Generation)	10	613-0307
Refillable racks for 100 - 1250 µl tips, empty (Next Generation)	6	613-0306

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Reagent reservoirs



Designed for use in multi-channel pipetting applications, these disposable reservoirs accommodate all types of pipettes up to 12-channel width.

- Trough design, graduation marks on interior walls, and pour-off spouts on each corner
- Lot-certified, non pyrogenic, DNase- and RNase-free
- Non sterile or electron beam sterilised

25 ml reservoirs also available in a unique divided format that features three distinct mini reservoir chambers, each with a 5 ml capacity; 50 ml reservoirs available in clear FDA-grade PVC or virgin-modified PS; all other sizes manufactured from virgin-modified PS.



Type	Capacity (ml)	Sterile	Packed	Pk	Cat. No.
25 ml					
PS	25	+	5/bag, 40 bags/case	200	613-1174
PS	25	+	1/bag, 100/case	100	613-1175
PS	25	-	50/case	50	613-1176
PS, 3 divisions	25	-	100/case	100	613-1177
PS, 3 divisions	25	+	5/bag, 40 bags/case	200	613-1178
PS, 3 divisions	25	+	1/bag, 100/case	100	613-1179
50 ml					
White PS	50	+	1/bag, 100/case	100	613-1184
White PS	50	+	5/bag, 40 bags/case	200	613-1183
White PS	50	-	50/case	50	613-1180
Natural PS	50	+	5/bag, 40 bags/case	200	613-1181
Natural PS	50	+	1/bag, 100/case	100	613-1182
PVC	50	-	100/case	100	613-1185
PVC	50	+	1/bag, 100/case	100	613-1186
PVC	50	+	5/bag, 40 bags/case	200	613-1187
100 ml					
PS	100	+	5/bag, 40 bags/case	200	613-1171
PS	100	+	1/bag, 100/case	100	613-1172
PS	100	-	50/case	50	613-1173
12x5 ml					
PS, 12 separate reagent channels	12x5	+	50/case	50	613-0100

VWR
COLLECTION

designed for your applications



Bottle-top dispensers, Zippette Classic



Variable volume, autoclavable.

- Fine adjustment for exact and reproducible dispensing
- All wetted parts are chemically resistant and autoclavable at +121 °C
- Easily removable PTFE piston for smooth action and easy cleaning
- Borosilicate glass barrel protected with a transparent PP sleeve can be easily removed and cleaned
- Easy priming and minimum waste with no leakage back into the reservoir

Accurate dispensing from an easy to use dispenser. The specially designed delivery spout ensures exact dispensing into narrow neck containers and the anti-drip safety valve makes sure the Zippette does not leak when not in use.

The Zippette Classic has a standard 30 mm neck fitting and is supplied with three bottle neck adapters (38, 40 and 45 mm), and an individual calibration certificate. Please note that the Zippette Classic is not supplied with a reservoir.

Volume (ml)	Division (ml)	Accuracy (%)	Imprecision (%)	Pk	Cat. No.
2,5	0,05	±0,3	0,1	1	612-4176
0,5 - 5	0,10	±0,3	0,1	1	612-4177
1 - 10	0,20	±0,3	0,1	1	612-4178
3 - 30	1,00	±0,3	0,1	1	612-4179
5 - 50	1,00	±0,3	0,1	1	612-4180

Bottle-top dispenser, Zippette Pro



Variable volume, autoclavable.

- All wetted parts chemically resistant and autoclavable at 121 °C
- Spring-loaded Zippette Pro requires no priming
- Easily removable PTFE piston for smooth action and easy cleaning
- Safety pedestal valve allows the Zippette Pro to be turned off to prevent accidental delivery, whilst ensuring it is drip-free
- Borosilicate glass barrel, protected with a transparent PP sleeve, can be easily removed and cleaned

Accurate dispensing from an easy to use variable volume bottle-top dispenser. The Zippette Pro has a capacity of 0 to 30 ml and can be used in two configurations: As a simple manually primed unit or, once fitted with a spring (supplied), it is converted to a fully self-priming dispenser.

The delivery spout ensures exact dispensing into narrow neck containers and the anti-drip safety valve makes sure the Zippette Pro does not leak when not in use.

The Zippette Pro has a standard 30 mm neck fitting. It is supplied with three bottle neck adapters (38, 40 and 45 mm), spring, individual calibration certificate and instruction manual.



Volume (ml)	Accuracy (%)	Imprecision (%)	Pk	Cat. No.
0 - 30	±0,3	<0,1	1	613-5281



Bottle-top dispensers



Variable volume, autoclavable.

- Valve system with steel spring
- PP with precision glass cylinder
- Quick and easy to use volume setting system
- Additional rotating fine volume adjustment for right or left handed use
- Adapter allows rotation of the dispenser on bottles to the desired position

The standard PP units with glass cylinder are suitable for aqueous liquids, dilute acids and alkalis - not for use with solvents and hydrofluoric acid which attack PP (for bottles with GL 32 thread). The glass cylinder and PTFE-encased glass piston with PP body models are designed for aqueous solutions, weakly concentrated acids, alkaline solutions and crystallising liquids compatible with PP. The amber glass cylinders, clear glass piston with PP body are suitable for light-sensitive liquids, compatible with PP.

Supplied with two adapters (GL 40 and GL 45) and calibration certificate.

Volume (ml)	Division (ml)	Pk	Cat. No.
Glass cylinders with PP standard units			
2 - 10	0,50	1	612-4750
10 - 50	1,00	1	612-4751
Glass cylinders, PTFE encased glass piston with PP body			
2 - 10	0,50	1	612-3669
10 - 50	1,00	1	612-3670
Amber glass cylinders, clear glass piston with PP body			
2 - 10	0,50	1	612-3671
10 - 50	1,00	1	612-3672



FINDING YOUR WAY AROUND THE VWR DISPENSER

Volume selection

1. Dosing button – pressing this button dispenses set aliquot
2. Dial - has positions 1-10 to set volume
3. Dosing table – see below for more details
4. Filling lever - raised to fill tip
5. Stop lever - securely stops

Inserting the tip

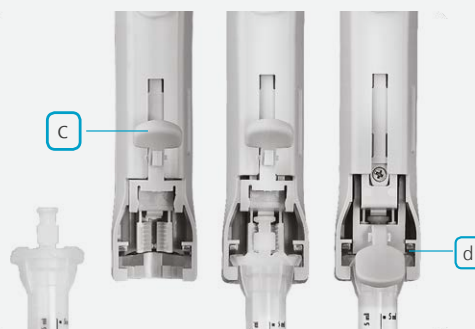
1. Push the filling lever (4) down into position (b) until it stops.
2. Tilt up the stop lever (5) into position (c).
3. Insert the tip and click into place with gentle pressure.
4. Gently push filling lever down once more and press the stop lever into position (d) so that it clicks into the tip.
5. VWR-Classic Tips 25 ml and 50 ml can only be used with the accompanying adapter that screws into place on top of the tip and then the normal tip insertion procedure can be followed. Adapter is autoclavable and can be reused many times.

Filling the tip

1. Immerse the end of the tip into the liquid.
2. Slowly push filling lever (4) up into position (a) to fill the tip. The amount of force exerted will depend on the viscosity of the solution being dispensed but a slow steady action prevents the formation of air bubbles or a vacuum.

Air bubbles in the top of the tip do not affect accuracy, nor does the tip have to be filled completely.

It is best practice to discard the first and last doses.



Selecting your volume

The Dosing Table

This table is a representation of the choices you have with the dial (2). The upper row is the programme number or NO and corresponds to the numbers 1-10 on the dial.

On the pipette below NO are all the different tip choices you have and the bottom row or STEP indicates how many doses of any particular volume you will be able to get.

1	2	3	4	5	6	7	8	9	10	← NO
1	1,5	2	2,5	3	3,5	4	4,5	5	5,5	0,05
2	3	4	5	6	7	8	9	10	11	0,1
4	6	8	10	12	14	16	18	20	22	0,2
10	15	20	25	30	35	40	45	50	55	0,5
20	30	40	50	60	70	80	90	100	110	1
25	37,5	50	62,5	75	87,5	100	112,5	125	137,5	1,25
50	75	100	125	150	175	200	225	250	275	2,5
100	150	200	250	300	350	400	450	500	550	5
200	300	400	500	600	700	800	900	1000	1100	10
250	375	500	625	750	875	1000	1125	1250	1375	12,5
500	750	1000	1250	1500	1750	2000	2250	2500	2750	25
1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	50
48	35	23	19	15	13	11	9	8	7	← STEP

Dosing Table and Example

Using the dial, select your desired dosing volume from the dosing table (indicated in µl).

Depending on your application you may have several tip choices – so, for example, you can get 8 x 10 µl from a 0,1 ml tip but 48 from a 0,5 ml tip or 19 from a 0,2 ml tip. This enables you to make best use of the tips you have to hand and get the most doses out of one fill – particularly useful for long series.

Repetitive pipette, mechanical



This pipette is designed for the dispensing of contaminated fluids and volatile liquids. The acceptance of dispenser tips with plunger helps to avoid contamination by ascending aerosols in the tip and guarantees long-term secure use.

- Flexible: Pipette allows 12 tip sizes, 10 volume adjustments and 120 program steps
- Volume adjustable from 1 to 5500 µl
- Most suitable for long dispensing series due to its low weight (85 g)
- Ergonomic design allows one handed operation of volume selection, loading and dispensing of liquids
- Volume adjustments and dosing volumes for different tips are clearly visible on the dispenser

Description	Pk	Cat. No.
Individual pipette, mechanical	1	613-2169

Volume (ml)	Packed	Pk	Cat. No.	Volume (ml)	Packed	Pk	Cat. No.
Dispenser tips, universal				Dispenser tips, universal			
0,1	Bulk	100	613-5867	0,1	Individual blister	100	613-5876
0,2	Bulk	100	613-5868	0,2	Individual blister	100	613-5877
0,5	Bulk	100	613-5869	0,5	Individual blister	100	613-5878
1,0	Bulk	100	613-5870	1,0	Individual blister	100	613-5879
2,5	Bulk	100	613-5871	2,5	Individual blister	100	613-5880
5,0	Bulk	100	613-5872	5,0	Individual blister	100	613-5881
10,0	Bulk	100	613-5873	10,0	Individual blister	100	613-5882
25,0	Bulk	25	613-1023	25,0	Individual blister	25	613-1032
50,0	Bulk	25	613-1024	50,0	Individual blister	25	613-1033



Repetitive pipette, Stepper



The Stepper in combination with the VWR dispenser tips is a proven system solution for the complete range of dispensing volumes from 1 to 5000 µl.

- Lightweight (105 g) - suitable for long dispensing series
- Reliable device with low maintenance requirements achieved by robust design and construction with a minimum of wearing parts
- Ergonomic design with dosage button positioned in the upper part of the device for single-handed volume selection, loading and dispensing
- Choose between the highest precision or a maximum of repetitions of the desired dosage volume, according to the requirements of the application
- Tested for function and precision after manufacture - serial number is only attributed if the requirements of DIN EN ISO 86551 are met



Chart of dosage volumes per tip size (when used in a system with VWR dispenser tips): Dispenser tips classic in VWR Stepper					
Adjustment dial	1	2	3	4	5
No. of steps	48	23	15	11	8
0,05 ml	1 µl	2 µl	3 µl	4 µl	5 µl
0,50 ml	10 µl	20 µl	30 µl	40 µl	50 µl
1,25 ml	25 µl	50 µl	75 µl	100 µl	125 µl
2,50 ml	50 µl	100 µl	150 µl	200 µl	250 µl
5,00 ml	100 µl	200 µl	300 µl	400 µl	500 µl
12,50 ml	250 µl	500 µl	750 µl	1000 µl	1250 µl
25 ml	500 µl	1000 µl	1500 µl	2000 µl	2500 µl
50 ml	1000 µl	2000 µl	3000 µl	4000 µl	5000 µl
Chart of dosage volumes per tip size (when used in a system with VWR dispenser tips): Dispenser tips universal in VWR Stepper					
Adjustment dial	1	2	3	4	5
No. of steps	48	23	15	11	8
0,10 ml	2 µl	4 µl	6 µl	8 µl	10 µl
0,20 ml	4 µl	8 µl	12 µl	16 µl	20 µl
0,50 ml	10 µl	20 µl	30 µl	40 µl	50 µl
100 ml	20 µl	40 µl	60 µl	80 µl	1,00 µl
2,50 ml	50 µl	100 µl	150 µl	200 µl	250 µl
5,00 ml	100 µl	200 µl	300 µl	400 µl	500 µl
10,00 ml	200 µl	400 µl	600 µl	800 µl	1000 µl
25,00 ml	500 µl	1000 µl	1500 µl	2000 µl	2500 µl
50,00 ml	1000 µl	2000 µl	3000 µl	4000 µl	5000 µl

Description	Pk	Cat. No.
VWR Stepper including adapter for 25 ml and 50 ml dispenser tips	1	613-0964
Description	Pk	Cat. No.
Starter Kit		
Stepper Starter Kit, incl. dispenser and VWR Classic tips (0,5/1,25/12,5/25 ml), 5 tips each	1	613-1262

Dispenser tips, universal



- Compatible with: VWR®, Ritter® ripette®, Brand® HandyStep® and HandyStep® electronic, Sartorius eLINE®, multipette plus, Stream, Xstream
- Nine different tip sizes from 0,1 to 50 ml
- Standard (non sterile, but PCR-clean = ATP, RNase, DNase and endotoxin-free) and sterile tips available
- Sterile tips guaranteed free from DNA, DNase, RNase, ATP and pyrogens

NOTE: The 25 ml and 50 ml tips require an adapter which is included in the delivery.

Volume (ml)	Sterile	Packed	Pk	Cat. No.
0,1	-	Bulk	100	613-5867
0,2	-	Bulk	100	613-5868
0,5	-	Bulk	100	613-5869
1,0	-	Bulk	100	613-5870
2,5	-	Bulk	100	613-5871
5,0	-	Bulk	100	613-5872
10,0	-	Bulk	100	613-5873
25,0	-	Bulk	25	613-1023
50,0	-	Bulk	25	613-1024
0,1	+	Individual blister	100	613-5876
0,2	+	Individual blister	100	613-5877
0,5	+	Individual blister	100	613-5878
1,0	+	Individual blister	100	613-5879
2,5	+	Individual blister	100	613-5880
5,0	+	Individual blister	100	613-5881
10,0	+	Individual blister	100	613-5882
25,0	+	Individual blister	25	613-1032
50,0	+	Individual blister	25	613-1033

Description	Pk	Cat. No.
Accessories		
Adapter for 25 ml tips	1	613-3810
Adapter for 50 ml tips	1	613-3811

Dispenser tips, classic



Compatible with: VWR®, Ritter® ripette® and ripette® pro, Eppendorf® Multipette® 4780, Brand® HandyStep® and HandyStep® electronic, Minilab 100/101, EasyStep, Distriman®.

- Eight different tip sizes from 0,05 to 50 ml
- Sterile tips guaranteed free of DNA, DNase, RNase, ATP and pyrogens

NOTE: The 25 ml and 50 ml tips require an adapter which needs to be ordered separately.

Volume (ml)	Sterile	Packed	Pk	Cat. No.
0,05	-	Bulk	100	613-1000
0,05	+	Individual blister	100	613-1008
0,5	-	Bulk	100	613-1001
0,5	+	Individual blister	100	613-1009
1,25	-	Bulk	100	613-1002
1,25	+	Individual blister	100	613-1010
2,5	-	Bulk	100	613-1003
2,5	+	Individual blister	100	613-1011
5,0	-	Bulk	100	613-1004
5,0	+	Individual blister	100	613-1012
12,5	-	Bulk	100	613-1005
12,5	+	Individual blister	100	613-1013
25,0	-	Bulk	25	613-1006
25,0	+	Individual blister	25	613-1014
50,0	-	Bulk	25	613-1007
50,0	+	Individual blister	25	613-1015
Description			Pk	Cat. No.
Accessories				
Adapter for 25 ml tips			1	613-3810
Adapter for 50 ml tips			1	613-3811

Dispensing bins

Acrylic

- Lid tilts back into locking position to remain open for repeated use
- Lid features an oversized lip to provide easy access, even to gloved hands
- Green bin is supplied with a removable insert divider to allow customisation of the interior (one or two compartments)

Convenient, space saving bins are ergonomically designed with large angled openings to facilitate the removal of items. Bins feature non skid rubber feet for added bench top stability as well as pre-drilled holes to allow for wall mounting (hardware included).



Description	Colour	WxDxH (mm)	Pk	Cat. No.
Dispensing bin, 1 compartment	Blue	115x155x170	1	631-0720
Dispensing bin, 2 compartments	Green	180x155x165	1	631-0721

Drawer organiser

PS.

- One wide compartment: 430 mm long, 110 mm wide
- Two compartments each 430 mm long, 80 mm wide
- Smooth surfaces with rounded corners for easy cleaning

For well organised storage of various different items in drawers, on shelves or at the workstation. Three long compartments for pipettes, thermometers and spatulas.



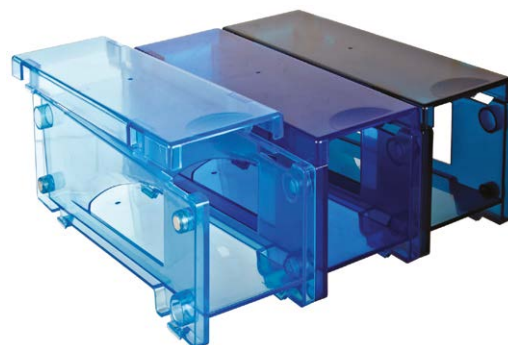
WxDxH (mm)	Colour	Pk	Cat. No.
460x307x63	White	1	631-0727

Pipette rack, Cargo Manual



Ideal for serological pipettes.

- Click together horizontally with side connections
- Securely lock in place with top connections
- Magnets on both sides of units connect securely and safely to metal surface such as filling cabinets, fume hoods, refrigerators and freezers
- Angled shelves store 0,1 to 50 ml pipettes within arm's reach
- Protective lid encloses the unit to prevent dust build up and provides an additional shelf for extra space when connected horizontally



Description	Colour	WxDxH (mm)	Pk	Cat. No.
Cargo manual pipette racks	Blue	95x127,5x301	3	612-3848

Sterilisation boxes for pipettes



Stainless steel, with square base, autoclavable

- Can be autoclaved at +121 °C and sterilised at +180 °C
- Bottom and underside of the lid are coated in silicone to minimise the risk of damaging the pipettes during transport and sterilisation

WxDxH (mm)	Pk	Cat. No.
50x50x300	1	612-2061
70x70x210	1	612-2062
70x70x290	1	612-2063
70x70x340	1	612-2064
70x70x430	1	612-2065
70x70x490	1	612-2066
80x80x400	1	612-2067



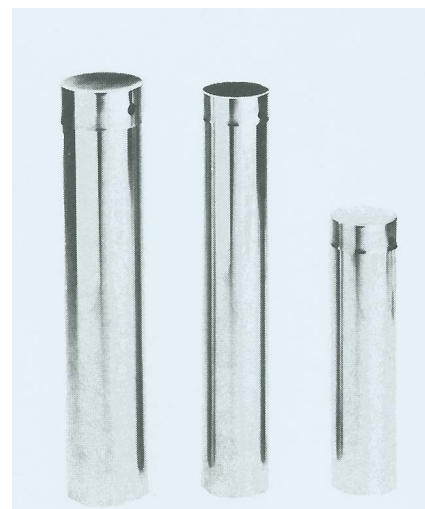
Sterilisation boxes for pipettes

Stainless steel, with round base, autoclavable



- Can be autoclaved at +121 °C and sterilised at +180 °C
- Bottom and underside of the lid are coated in silicone to minimise the risk of damaging the pipettes during transport and sterilisation

ØxL (mm)	Pk	Cat. No.
64x280	1	612-2070
64x407	1	612-2068
64x457	1	612-2069



Bench protectors

High quality, smooth, absorbent paper that quickly absorbs liquid spills with a thick, laminated polyethylene layer that prevents seeping onto the work surface.

- Retains leaked reagents in radio-chemical laboratories and prevents radioactive contamination
- Enables recovery of leaked, expensive materials
- Breakage protection for hard surfaces
- Absorption layer for water or solvent moisture chambers
- Impermeable protective material for lining animal cages

Absorbance rate: 115-9220 and 115-9221: 500 ml/m²

Absorbance rate: 115-0673: 750 ml/m²

Colour	LxW (mm)	Packed	Pk	Cat. No.
White	460x570	Single sheets	50	115-9220
White	460x50 000	Roll	1	115-9221
White	460x570	Single sheets	50	115-0673

Lab mats, silicone

The reusable, environmentally friendly Lab Mat is an economical solution to help keep bench tops clean and safe from stains, spills and wear. The lab mat is made from a durable FDA-approved silicone material that creates a stain resistant, washable working surface. It is chemically inert and does not react with most chemicals.

- Protect bench tops from hot items up to 200 °C
- Large anti-skid and noise-dampening working surface
- Lip design around the outer edge of the mat helps contain spillage
- Washable with standard disinfectants in sinks or dishwashers to enable repetitive use
- Mat can be rolled up for compact storage
- Autoclavable at 121° for 15 minutes

The lab mat can be used with items such as centrifuges, vortex mixers, hot plates, stirrers, pipettes and so much more. Ideal for every type of laboratory and more specialised areas such as cold rooms, cleanrooms, sterile suites and areas where high sterility is a requirement.



Thickness (mm)	Colour	LxW (mm)	Pk	Cat. No.
2	Purple	350x600	1	111-9200

VWR calibrated glassware – proven quality for reliable results

VWR volumetric glassware is produced from high quality borosilicate 3.3 glass tubing that is extremely resistant to chemicals and thermal shock. The production from glass tubing also ensures very even wall thickness, which means fewer breakages.

VWR volumetric glassware is available in different accuracy classes.

Class A and class AS: Highest accuracy class that means these measuring instruments are calibrated within very tight tolerances. The tolerances for both classes are identical but class AS products are designed to allow a faster outflow than class A products (applicable for pipettes and burettes). Due to the faster outflow

there is only a waiting time of 15 seconds. Class A and class AS products are delivered with batch certificates which indicate the mean value of the tested production batch. They cannot be delivered with a single certificate.

Class B: The accuracy of these measuring instruments is approximately half the accuracy of class A/AS. These products are ideal for educational use. Class B products are not delivered with a batch certificate.

VWR volumetric glassware is either calibrated to contain ('In', measuring flasks and measuring cylinders) or to deliver ('Ex', pipettes and burettes). All products are calibrated at a temperature of 20 °C.

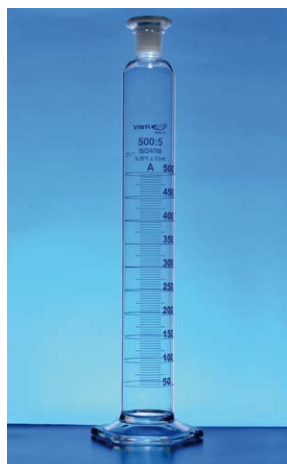
Measuring flasks, class A, with PP stopper

- According to DIN EN ISO 1042
- Inscriptions in highly contrasting blue colour
- Batch certificate included in every pack
- Amber glass option for light-sensitive liquids



Mixing measuring cylinders, class A with PE stopper

- According to DIN EN ISO 4788
- Calibrated to contain (TC, In)
- Hexagonal glass base
- Blue ring marks at major graduations
- Batch certificate included in every pack



Measuring cylinders, tall form, class A

- According to DIN EN ISO 4788
- Spout and hexagonal glass base
- Ring marks at major graduations
- Graduation and inscriptions in blue colour
- Batch certificate included in every pack



Measuring cylinders, low form, class B

- Spout and hexagonal glass base
- Ring marks at major graduations
- Graduation and inscriptions in amber stain



Austria
VWR International GmbH
Graumannsgasse 7
1150 Wien
Tel.: +43 1 97 002 0
Email: info.at@vwr.com

Belgium
VWR International bvba
Researchpark Haasrode 2020
Geldenaaksebaan 464
3001 Leuven
Tel.: +32 (0) 16 385 011
Email: vwr.be@vwr.com

Czech Republic
VWR International s. r. o.
Veetee Business Park
Pražská 442
CZ - 281 67 Stříbrná Skalice
Tel.: +420 321 570 321
Email: info.cz@vwr.com

Denmark
VWR International A/S
Tobaksvejen 21
2860 Søborg
Tel.: +45 43 86 87 88
Email: info.dk@vwr.com

Finland
VWR International Oy
Valimotie 9
00380 Helsinki
Tel.: +358 (0) 9 80 45 51
Email: info.fi@vwr.com

France
VWR International S.A.S.
Le Périgares – Bâtiment B
201, rue Carnot
94126 Fontenay-sous-Bois cedex
Tel.: 0 825 02 30 30* (national)
Tel.: +33 (0) 1 45 14 85 00 (international)
Email: info.fr@vwr.com
* 0,18 € TTC/min

Germany
VWR International GmbH
Hilpertstraße 20a
D - 64295 Darmstadt
Tel.: 0800 702 00 07* (national)
Tel.: +49 (0) 6151 3972 0 (international)
Email: info.de@vwr.com
*Freecall

Hungary
VWR International Kft.
Simon László u. 4.
4034 Debrecen
Tel.: +36 52 521130
Email: info.hu@vwr.com

Ireland / Northern Ireland
VWR International Ltd / VWR International
(Northern Ireland) Ltd
Orion Business Campus
Northwest Business Park
Ballycoolin
Dublin 15
Tel.: +353 (0) 1 88 22 222
Email: sales.ie@vwr.com

Italy
VWR International S.r.l.
Via San Giusto 85
20153 Milano (MI)
Tel.: +39 02 3320311
Email: info.it@vwr.com

The Netherlands
VWR International B.V.
Postbus 8198
1005 AD Amsterdam
Tel.: +31 (0) 20 4808 400
Email: info.nl@vwr.com

Norway
VWR International AS
Haavard Martinsens vei 30
0978 Oslo
Tel.: +47 22 90 00 00
Email: info.no@vwr.com

Poland
VWR International Sp. z o.o.
Limbowia 5
80-175 Gdansk
Tel.: +48 58 32 38 200
Email: info.pl@vwr.com

Portugal
VWR International - Material de
Laboratório, Lda
Centro Empresarial de Alfragide
Rua da Indústria, nº 6
2610-088 Alfragide
Tel.: +351 21 3600 770
Email: info.pt@vwr.com

Spain
VWR International Eurolab S.L.
C/ Tecnologia 5-17
A-7 Llinars Park
08450 - Llinars del Vallès
Barcelona
Tel.: +34 902 222 897
Email: info.es@vwr.com

Sweden
VWR International AB
Fagerstagatan 18a
163 94 Stockholm
Tel.: +46 (0) 8 621 34 00
Email: kundservice.se@vwr.com

Switzerland
VWR International GmbH
Lerzenstrasse 16/18
8953 Dietikon
Tel.: +41 (0) 44 745 13 13
Email: info.ch@vwr.com

UK
VWR International Ltd
Customer Service Centre
Hunter Boulevard - Magna Park
Lutterworth
Leicestershire
LE17 4XN
Tel.: +44 (0) 800 22 33 44
Email: uksales@vwr.com

China
VWR International China Co., Ltd.
Shanghai Branch
Room 256, No. 3058 Pusan Road
Pudong New District
Shanghai 200123
Tel.: +86 21 5898 6888
Email: info_china@vwr.com

India
VWR Lab Products Private Limited
No.139, BDA Industrial Suburb,
6th Main, Tumkur Road, Peenya Post,
Bangalore, India – 560058
Tel.: +91 80 28078400
Email: vwr_india@vwr.com

Singapore
VWR Singapore Pte Ltd
18 Gul Drive
Singapore 629468
Tel.: +65 6505 0760
Email: sales.sg@vwr.com

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