

NEPTUNE™

Tools for Life Sciences



VWR 



22+ Years of Liquid Handling

Industry 1st to create a tip reload system

Neptune's patented Environmentally Sustainable Pack (ESP) reduces plastic waste by up to 90%

Industry 1st to design an Aerosol Barrier Tip

specifically engineered to reduce cross contamination

Industry 1st to develop a low retention polymer

S³ (Sample Saving Surface) virtually eliminates sample hold-up

Introducing

NEPTUNE[™] 2.0

A new and improved line of Neptune products will be introduced beginning January 2011. Inspired by customer needs coupled with a comprehensive assessment of our product portfolio, Neptune's improved line of laboratory consumables will deliver product features that offer genuine benefits to researchers worldwide. The new Neptune products will include:

Pipette Tip Enhancements:

- **Universal Fit:** Thin wall crown provides an optimum seal for both single and multichannel pipettors
- **Graduated Tips:** Provides a visual confirmation of draw volume for added confidence
- **Expanded Barrier Tip Line:** New graduated 1250XL and 300 µl barrier tips to meet growing market demand
- **Sample Saving Surface[™]:** A new and improved low retention technology to further reduce sample hold up and ensure accurate sample delivery

Packaging Optimizations:

- **Eco-Friendly Racks:** Manufactured using recyclable materials and designed to use to the least amount of plastic possible
- **Ink Jet Identification:** Each rack precisely identified with manufacturing lot and product catalog number for increased traceability
- **ESP (Environmentally Sustainable Pack)[™]:** The most comprehensive recyclable reload systems in 10 µl, 10XL, 20 µl, 200 µl, 300 µl, 1000 µl, and 1250XL configurations



COMMITMENT TO QUALITY

Our tips are manufactured under stringent controls in Neptune's ISO 9001:2008 certified facility. Neptune's advanced manufacturing process continually monitors the quality of products and individual batch testing ensures Neptune products are certified RNase, DNase, DNA and Endotoxin-free.

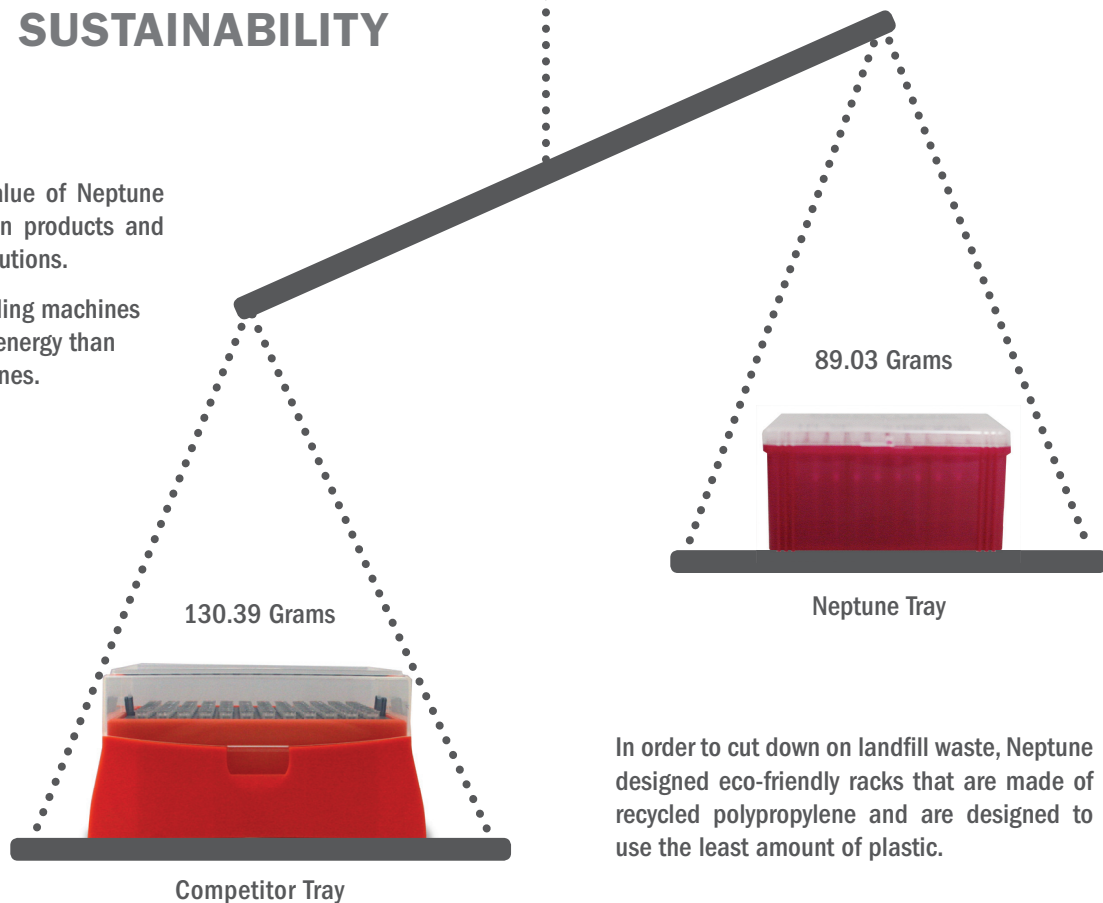
Test	Product	Assay Description
Function	Tips	Our custom built robotic equipment precisely measures insertion force, checks each tip for vacuum pressure loss, and constantly monitors the function of Neptune tips so that you can be assured of reliable performance.
	Tubes	Neptune tube samples are extensively centrifuged and boil tested to ensure they meet the highest standards.
	Plates	Neptune PCR and microtiter plate dimensions are checked against SBS specifications and vacuum tested on customized fixtures to ensure that each plate is flat and leak-free.
Sterility	Process	Neptune sterile products have undergone validated electron beam irradiation and are certified as sterile with a sterility assurance level (SAL) of 10^{-6} . Neptune maintains a validated sterilization program compliant with ANSI/AAMI/ISO 11137-2:2006. Bioburden studies and radiation validation audits are performed every quarter.
Molecular Purity	Nucleic acids	Neptune products are PCR tested and certified to be free of contaminating nucleic acids.
	Nucleases	Neptune plastics are tested and certified to be free of nucleases, with a test sensitivity level of less than 3.4×10^{-11} Kunitz units of RNase and 1.7×10^{-11} Kunitz units of DNase.
	Endotoxins/Pyrogens	LAL coagulation testing demonstrates these products are free of endotoxins, test sensitivity is 0.06 EU/ml.
Traceability	Process	Each product contains a 5 digit lot number located on the rack, pack and case of each finished good. With Neptune's advanced manufacturing process all raw materials are able to be traced for maximum quality assurance.



STANCE ON SUSTAINABILITY

A long standing core value of Neptune has been to make green products and strive for sustainable solutions.

Neptune's injection molding machines consume one-third less energy than standard molding machines.

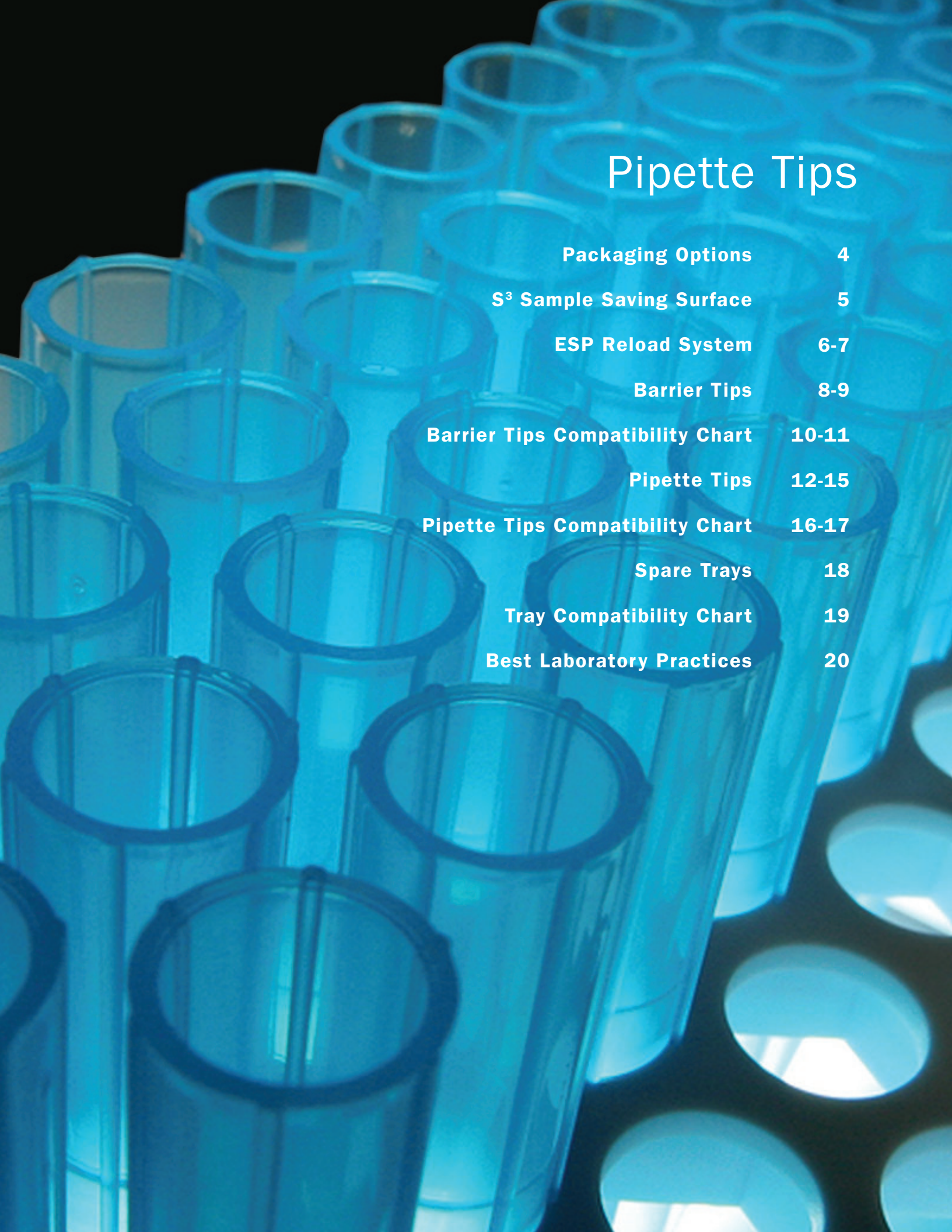


In order to cut down on landfill waste, Neptune designed eco-friendly racks that are made of recycled polypropylene and are designed to use the least amount of plastic.

To reduce our carbon footprint, Neptune packaging was created to be as compact as possible. When buying a competitor's product, it would require twice as many containers in order to ship the equivalent of Neptune product. Neptune saves energy for our environment and shipping cost for the consumer.



Illustrating footprint comparison of Neptune vs. competitive packaging



Pipette Tips

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PACKAGING OPTIONS

Packaging Options



Bulk



Racked



Rack & Stack

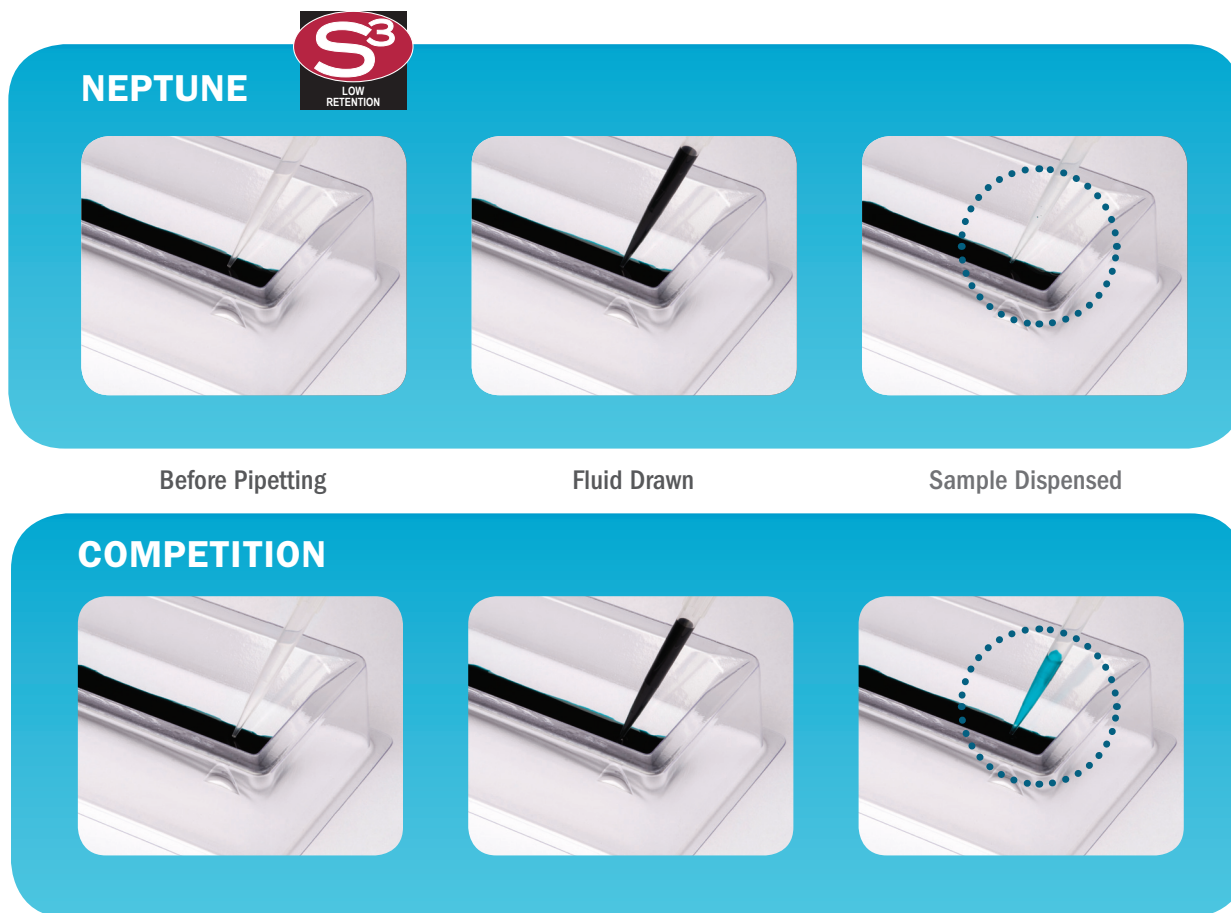


ESP™ Reload System



BT-ESP™

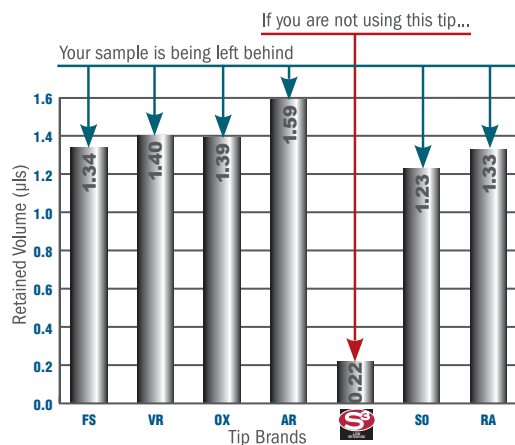




Neptune's exclusive S³ polymer was designed to increase pipetting accuracy by virtually eliminating tip retention and sample hold-up. S³ pipette tips deliver volumes within 0.1% of the indicated volume, versus 0.7% for standard polymer tips. This provides a more accurate application.

Pipette tips produced from standard polymers will variably retain biological solutions, preventing accurate and repeatable results. Diamond polishing of the mold reduces the number of imperfections, producing a smoother surface. Silicone treatment of tips further reduces retention, but can leach out and interfere with reactions or degrade at autoclaving temperatures.

Neptune was the first to address this challenge with the development of a novel polymer technology that produces a Sample Saving Surface on plastics. Neptune's third generation S³ polymer system results in a surface that virtually eliminates sample hold-up, providing the most accurate and consistent sample delivery possible in the industry.



ESP RELOAD SYSTEM



ESP[™]
ENVIRONMENTALLY
SUSTAINABLE PACK

FEATURES:

- Reload up to 10 trays in 90 seconds
- Requires 57% less storage space
- Reuse existing trays
- Generates 90% less packaging waste
- Available in standard and filtered pipette tip format

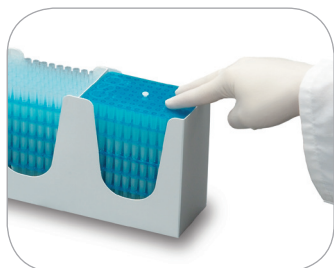
The Neptune ESP (Environmental Sustainable Pack) System was designed to meet industry demands to minimize plastic waste by 90% and provide an environmentally friendly solution. ESP tips provide a low cost alternative compared with racked product, while saving time not having to load bulk tips.

Neptune's revolutionary transfer system allows you to reload your empty trays with new tips in a single movement. The patented transfer card is designed to prevent contamination by minimizing the amount of handling when reloading

empty tip racks. The ESP system fits the widest range of tip trays on the market and is available in both standard and filtered pipette tip reloads. We offer ESP reloads in both sterile and non-sterile formats. Look for the E symbol on the pipette chart (under packaging) on pages 8-15. When buying the ESP system for the first time, be sure to purchase an empty tray (page 18) by following the tray guide on page 19.



Standard ESP System



Engage the alignment plate by firmly pressing down on the plate



Insert the tips into your empty tray



Secure plate by firmly pressing on all four corners of the alignment plate



Firmly depress the release button using your index finger

1000 μ l Extended Length ESP System



Press down firmly on the alignment plate and engage the side posts into the slots on the insert card.



Hold the alignment card away from the side posts and insert the tips into your empty tray.



Secure plate by firmly pressing on all four corners of the alignment plate.



Squeeze the sides posts of the alignment plate and pull up to disengage from the insert card.

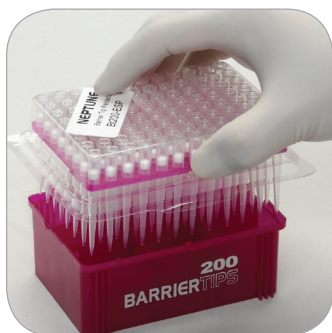
ESP System for Barrier Tips



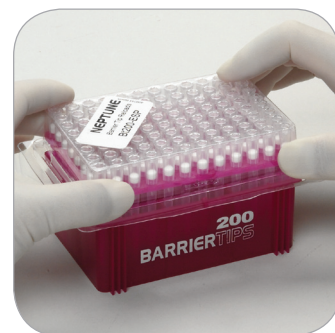
BT-ESP reloads are individually packaged to preserve the integrity of the aerosol barrier



Remove alignment plate from the packaging base by gripping alignment plate using the upper portion of the clamshell packaging



Insert the tips into your empty tray



Secure plate by firmly pressing on all four corners of the alignment plate

BARRIER TIPS

Neptune Barrier Tips are sterile and tested to be free of:

- DNA
- DNase & RNase
- Endotoxins (Pyrogens)



	Neptune PN	VWR Cat. #	Tip Type	Packaging	Quantity	Price
BT10 Series – 10 µl Barrier Tip  Actual size	BT10	89140-160	S ³	R S	10 trays of 96/pack	\$97.97
					5 packs/case	\$467.10
BT10XL Series – 10 µl Extended Length Barrier Tip  Actual size	BT10XLS3	89168-750	S ³	R S	10 trays of 96/pack	\$96.00
	BT10XL	89140-166	NP	R S	5 packs/case	\$453.00
BT10E Series – 10 µl Eppendorf™ Style Barrier Tip  Actual size	BT10E	89140-164	S ³	R S	10 trays of 96/pack	\$96.04
					5 packs/case	\$456.98
BT10F Series – 10 µl Finn™ Style Barrier Tip  Actual size	BT10F	89140-930	S ³	R S	10 trays of 96/pack	\$100.72
					5 packs/case	\$479.61
BT20 Series – 20 µl Barrier Tip  Actual size	BT20	89140-932	S ³	R S	10 trays of 96/pack	\$97.08
	BT20-ESP	89140-934	S ³	E S	5 packs/case	\$461.75
					10 inserts of 96/pack	\$85.11
					4 packs/case	\$323.81

FEATURES



Sample Saving Surface



Sterile



Natural Polypropylene

PACKAGING OPTIONS



Racked



Rack & Stack



ESP Reload System
Empty rack needed (pg 18)



Bulk



Product Identification

- Increases lot traceability while simultaneously making racks recyclable
- Printed catalog number simplifies the reordering process

	Neptune PN	VWR Cat. #	Tip Type	Packaging	Quantity	Price
BT100 Series – 100 µl Barrier Tip  Actual size	BT100	89140-162	S³	R S	10 trays of 96/pack	\$103.30
					5 packs/case	\$491.31
BT200 Series – 200 µl Barrier Tip  Actual size	BT200	89140-936	S³	R S	10 trays of 96/pack	\$96.97
					5 packs/case	\$461.40
	BT200-ESP	89140-938	S³	E S	10 inserts of 96/pack	\$84.90
					4 packs/case	\$323.24
BT300 Series – 300 µl Barrier Tip  Actual size	BT300	89168-752	S³	R S	10 trays of 96/pack	\$96.00
					5 packs/case	\$453.00
BT1250 Series – 1000 µl Extended Length Barrier Tip  Tip image has been reduced to 72% of actual size	BT1250	89168-754	S³	R PS	8 trays of 96/pack	\$96.00
					4 packs/case	\$362.00
	BT1250.N	89168-756	NP	R S	8 trays of 96/pack	\$92.00
					4 packs/case	\$350.00

FEATURES



Sample Saving Surface



Sterile



Natural Polypropylene

PACKAGING OPTIONS



Racked



Rack & Stack



ESP Reload System
Empty rack needed (page 18)



Bulk

BARRIER TIP COMPATIBILITY CHART

Pipettor Brand/Model	Biohit™	Biohit Proline™	Biohit Proline Plus™	Brand Transferpette S™	Brand Transferpette Electronic™	Capp™	CLP Beta-Pette™	CLP Poseidon™	CLP Poseidon Electronic™	Eppendorf Reference™
BT10 Series - 10 µl Barrier Tip 		0.5-10 µl		0.5-10 µl		0.5-10 µl	0.1-2 µl 0.5-10 µl	0.2-2 µl 0.5-10 µl	2-20 µl	0.5-10 µl
BT10XL Series - 10 µl Extended Length Tip 		0.5-10 µl		0.5-10 µl		0.5-10 µl	0.1-2 µl 0.5-10 µl	0.2-2 µl 0.5-10 µl	2-20 µl	0.1-2.5 µl 0.5-10 µl
BT10E Series - 10 µl Eppendorf™ Style Barrier Tip 		0.5-10 µl		0.5-10 µl		0.5-10 µl	0.1-2 µl 0.5-10 µl	0.2-2 µl 0.5-10 µl	2-20 µl	0.1-2.5 µl 0.5-10 µl
BT10F Series - 10 µl Finn™ Style Barrier Tip 	M100 M200		10-100 µl 20-200 µl	2-20 µl 10-100 µl 20-200 µl	15-300 µl	5-50 µl 10-100 µl 30-300 µl	2-20 µl 10-100 µl 20-200 µl	5-50 µl 10-100 µl 20-200 µl 30-300 µl	10-200 µl	2-20, 10-100, 50-200 µl
BT20 Series - 20 µl Barrier Tip 	M100 M200		10-100 µl 20-200 µl	2-20 µl 10-100 µl 20-200 µl	15-300 µl	5-50 µl 10-100 µl 30-300 µl	2-20 µl 10-100 µl 20-200 µl	5-50 µl 10-100 µl 20-200 µl 30-300 µl	10-200 µl	2-20, 10-100, 50-200 µl
BT100 Series - 100 µl Barrier Tip 	M100 M200		20-200 µl	20-200 µl	15-300 µl	5-50 µl 10-100 µl 30-300 µl	20-200 µl	5-50 µl 10-100 µl 20-200 µl 30-300 µl	10-200 µl	50-200 µl
BT200 Series - 200 µl Barrier Tip 	M100 M200		20-200 µl	20-200 µl	15-300 µl	5-50 µl 10-100 µl 30-300 µl	20-200 µl	5-50 µl 10-100 µl 20-200 µl 30-300 µl	10-200 µl	50-200 µl
BT300 Series - 300 µl Barrier Tip 	M100 M200		20-200 µl	20-200 µl	15-300 µl	5-50 µl 10-100 µl 30-300 µl	20-200 µl	5-50 µl 10-100 µl 20-200 µl 30-300 µl	10-200 µl	50-200 µl
BT1250 Series - 1000 µl Extended Length Barrier Tip 		200-1000 µl		100-1000 µl			100-1000 µl	100-1000 µl	100-1000 µl	100-1000 µl

Eppendorf Research™	0.5-10 µl	0.1-2.5 µl 0.5-10 µl	0.1-2.5 µl 0.5-10 µl	2-20 µl 10-100 µl 20-200 µl 30-300 µl	2-20 µl 10-100 µl 20-200 µl 30-300 µl	20-200 µl 30-300 µl	20-200 µl 30-300 µl	20-200 µl 30-300 µl	100-1000 µl
Eppendorf Research Plus™	0.5-10 µl	0.1-2.5 µl 0.5-10 µl	0.1-2.5 µl 0.5-10 µl	2-20 µl 10-100 µl	2-20 µl 10-100 µl	50-200 µl	50-200 µl	50-200 µl	100-1000 µl
Finnpipette™	0.5-10 µl 5-50 µl	0.5-10 µl 5-50 µl	0.5-10 µl 5-50 µl	2-20 µl 5-50 µl 20-200 µl 30-300 µl	2-20 µl 5-50 µl 20-200 µl 30-300 µl	5-50 µl 20-200 µl 30-300 µl	5-50 µl 20-200 µl 30-300 µl	5-50 µl 20-200 µl 30-300 µl	100-1000 µl 200-1000 µl
Finnpipette Electronic™	1-10 µl	1-10 µl	1-10 µl	30-300 µl	30-300 µl	30-300 µl	30-300 µl	30-300 µl	100-1200 µl
Finnpipette F1™	1-10 µl	1-10 µl	1-10 µl						
Gilson Pipetman™	P2 P10	P2 P10	P2 P10	P20 P100 P200	P20 P100 P200	P200	P200	P200	P1000
Gilson Pipetman Ultra™				U20 U200	U20 U200	U200	U200	U200	
Hamilton™	0.2-2 µl 1-10 µl	0.2-2 µl 1-10 µl	0.2-2 µl 1-10 µl	2.5-25 µl 10-100 µl 30-300 µl	2.5-25 µl 10-100 µl 30-300 µl	2.5-25 µl 10-100 µl 30-300 µl	2.5-25 µl 10-100 µl 30-300 µl	2.5-25 µl 10-100 µl 30-300 µl	100-1000 µl
Labnet BioPette E™									100-1200 µl
Nichiryo Nichipet EX™	0.5-10 µl	0.5-10 µl	0.5-10 µl	2-20 µl 10-100 µl 20-200 µl	2-20 µl 10-100 µl 20-200 µl	20-200 µl	20-200 µl	20-200 µl	100-1000 µl
Nichiryo Oxford Benchmate™	0.1-2 µl	0.1-2 µl	0.1-2 µl	2-20 µl	2-20 µl				
Nichiryo Oxford Multimate™	0.5-10 µl	0.5-10 µl	0.5-10 µl	5-50 µl 50-300 µl	5-50 µl 50-300 µl	50-300 µl	50-300 µl	50-300 µl	
Socorex Calibra 822™	1-10 µl	1-10 µl	1-10 µl	10-100 µl 20-200 µl	10-100 µl 20-200 µl	20-200 µl	20-200 µl	20-200 µl	100-1000 µl
VWR Ergonomic High Performance™				2-20 µl 20-200 µl	2-20 µl 20-200 µl	20-200 µl	20-200 µl	20-200 µl	100-1000 µl
VWR Ultra High Performance™	0.1-2 µl 0.5-10 µl	0.1-2 µl 0.5-10 µl	0.1-2 µl 0.5-10 µl	2-20 µl 10-100 µl 20-200 µl	2-20 µl 10-100 µl 20-200 µl	20-200 µl	20-200 µl	20-200 µl	100-1000 µl

PIPETTE TIPS



FEATURES:

- Eco-friendly racks designed for minimum plastic consumption
- Easy-insertion, easy-ejection
- S³ technology assures the highest recovery of your precious sample

	Neptune PN	VWR Cat. #	Tip Type	Packaging	Quantity	Price
2040 Series – 10 µl Micro Tip  Actual size	2040	89140-096	S ³	B	1000 tips/bag	\$29.97
					20 bags/case	\$460.45
	2042	89140-100	S ³	R	10 trays of 96/pack	\$48.87
					5 packs/case	\$203.46
	2042.S	89140-098	S ³	S R	10 trays of 96/pack	\$46.95
					5 packs/case	\$213.16
	2047	89140-104	S ³	E	20 cards of 96/pack	\$57.62
2340 Series – 10 µl Extended Length Tip  Actual size					4 packs/case	\$219.53
	2047.S	89140-102	S ³	S E	20 cards of 96/pack	\$62.11
					4 packs/case	\$236.74
	2340	89140-154	NP	B	1000 tips/bag	\$35.54
					20 bags/case	\$546.75
	2342	89140-158	NP	R	10 trays of 96/pack	\$48.22
					5 packs/case	\$219.05
2140 Series – 10 µl Ultra Micro Tip  Actual size	2342.S	89140-156	NP	S R	10 trays of 96/pack	\$50.38
					5 packs/case	\$228.84
	2347.N	89168-748	NP	E	10 cards of 96/pack	\$45.00
					10 packs/case	\$350.00
	2347.NS	89168-746	NP	S E	10 cards of 96/pack	\$47.00
					10 packs/case	\$370.00
	2140	89140-128	S ³	B	1000 tips/bag	\$29.92
					20 bags/case	\$460.00
	2142	89140-132	S ³	R	10 trays of 96/pack	\$48.57
					5 packs/case	\$202.31
	2142.S	89140-130	S ³	S R	10 trays of 96/pack	\$47.07
					5 packs/case	\$213.77

FEATURES

S³ Sample Saving Surface

S Sterile

NP Natural Polypropylene

PACKAGING OPTIONS

R Racked

RS Rack & Stack

E ESP Reload System

B Bulk

Empty rack needed (page 18)

	Neptune PN	VWR Cat. #	Tip Type	Packaging	Quantity	Price
2100 Series – 200 µl Universal Tip  <i>Actual size</i>	2100.N	89140-886	NP	B	1000 tips/bag	\$29.33
					10 bags/case	\$209.62
	2100	89140-884	S ³	B	1000 tips/bag	\$35.57
					10 bags/case	\$274.06
	2102.N	89140-894	NP	R	10 trays of 96/pack	\$46.23
					5 packs/case	\$192.01
	2102.NS	89140-896	NP	S R	10 trays of 96/pack	\$48.38
					5 packs/case	\$201.48
	2102	89140-892	S ³	R	10 trays of 96/pack	\$48.79
					5 packs/case	\$202.95
	2102.S	89140-898	S ³	S R	10 trays of 96/pack	\$47.11
					5 packs/case	\$213.77
	2101.N	89140-890	NP	RS	5 inserts of 192/pack	\$46.19
					5 packs/case	\$192.48
	2101	89140-888	S ³	RS	5 inserts of 192/pack	\$46.15
					5 packs/case	\$192.22
 <i>Actual size</i>	2107.N	89140-902	NP	E	10 cards of 96/pack	\$43.37
					10 packs/case	\$361.66
	2107	89140-900	S ³	E	10 cards of 96/pack	\$45.87
					10 packs/case	\$381.94
	2107.S	89140-904	S ³	S E	10 cards of 96/pack	\$46.84
					10 packs/case	\$425.61
	2100.YN	89140-108	NP	B	1000 tips/bag	\$29.19
					10 bags/case	\$208.19
	2100.Y	89140-106	S ³	B	1000 tips/bag	\$29.88
					10 bags/case	\$229.82
	2102.YN	89140-112	NP	R	10 trays of 96/pack	\$45.53
					5 packs/case	\$189.62
	2102.YNS	89140-114	NP	S R	10 trays of 96/pack	\$48.16
					5 packs/case	\$200.98
	2102.Y	89140-110	S ³	R	10 trays of 96/pack	\$48.42
					5 packs/case	\$202.15
	2102.YS	89140-116	S ³	S R	10 trays of 96/pack	\$46.78
					5 packs/case	\$212.65
	2107.YN	89140-120	NP	E	10 cards of 96/pack	\$43.35
					10 packs/case	\$361.20
	2107.Y	89140-118	S ³	E	10 cards of 96/pack	\$46.78
					10 packs/case	\$388.89
	2107.YS	89140-122	S ³	S E	10 cards of 96/pack	\$46.77
					10 packs/case	\$425.08

FEATURES

S³ Sample Saving Surface S Sterile NP Natural Polypropylene

PACKAGING OPTIONS

R Racked RS Rack & Stack E ESP Reload System B Bulk
Empty rack needed (page 18)

PIPETTE TIPS

	Neptune PN	VWR Cat. #	Tip Type	Packaging	Quantity	Price
2016 Series – 200 µl Extended Length Gel Tip  <i>Actual size</i>	2016	89140-094	NP	R	5 racks of 204/pack	\$190.76
					5 packs/case	\$772.10
	2016.S	89140-092	NP	S R	5 racks of 204/pack	\$222.06
2150 Series – 200 µl Extended Length Tip  <i>Tip image has been reduced to 78% of actual size</i>	2150	89140-134	NP	B	1000 tips/bag	\$48.37
					5 packs/case	\$219.68
	2152	89140-136	NP	R	8 racks of 204/pack	\$109.00
2090 Series – 300 µl Universal Tip  <i>Actual size</i>	2090.N	89140-878	NP	B	1000 tips/bag	\$29.95
					10 bags/case	\$230.82
	2090	89168-732	S ³	B	1000 tips/bag	\$37.00
					10 bags/case	\$270.71
	2092.N	89140-882	NP	R	10 trays of 96/pack	\$48.85
					5 packs/case	\$203.50
	2092.NS	89140-880	NP	S R	10 trays of 96/pack	\$46.72
					5 packs/case	\$212.40
	2092	89168-736	S ³	R	10 trays of 96/pack	\$50.00
					5 packs/case	\$199.84
	2092.S	89168-734	S ³	S R	10 trays of 96/pack	\$52.00
					5 packs/case	\$210.29
	2097.N	89168-742	NP	E	10 cards of 96/pack	\$45.00
					10 packs/case	\$356.87
	2097.NS	89168-744	NP	S E	10 cards of 96/pack	\$47.00
					10 packs/case	\$377.59
2110 Series – 1000 µl Traditional Shaped Tip  <i>Tip image has been reduced to 84% of actual size</i>	2110	89140-126	NP	B	1000 tips/bag	\$38.56
					4 bags/case	\$118.08
	2112	89140-910	NP	R	16 trays of 60/case	\$49.42
2110 Series – 1000 µl Blue Traditional Shaped Tip  <i>Tip image has been reduced to 84% of actual size</i>	2112.S	89140-912	NP	S R	16 trays of 60/case	\$56.06
	2110.B	89140-124	NP	B	1000 tips/bag	\$35.53
					4 bags/case	\$108.90
	2112.B	89140-914	NP	R	16 trays of 60/case	\$49.95
	2112.BS	89140-916	NP	S R	16 trays of 60/case	\$57.42

FEATURES



Sample Saving Surface



Sterile



Natural Polypropylene

PACKAGING OPTIONS



Racked



Rack & Stack



ESP Reload System
Empty rack needed (page 18)



Bulk



	Neptune PN	VWR Cat. #	Tip Type	Packaging	Quantity	Price
2160 Series – 1000 µl Universal Tip  Tip image is 85% of actual size	2160	89140-918	NP	B	1000 tips/bag	\$35.92
					4 bags/case	\$110.48
	2162	89140-920	NP	R	16 trays of 60/case	\$49.44
	2162.S	89140-922	NP	S R	16 trays of 60/case	\$55.01
	2167	89140-924	NP	E	16 cards of 60/pack	\$47.29
					4 packs/case	\$171.69
2370 Series – 1000 µl Extended Length Tip  Tip image is 72% of actual size	2370.N	89168-762	NP	B	1000 tips/bag	\$35.00
					4 bags/case	\$108.00
	2372.N	89168-764	NP	R	8 trays of 96/pack	\$45.00
					4 packs/case	\$160.00
	2372.NS	89168-766	NP	S R	8 trays of 96/pack	\$47.00
					4 packs/case	\$168.00
	2372	89168-758	S ³	R	8 trays of 96/pack	\$48.00
					4 packs/case	\$165.00
	2372.S	89168-760	S ³	S R	8 trays of 96/pack	\$49.00
					4 packs/case	\$170.00
	2377.N	89168-772	NP	E	10 cards of 96/pack	\$43.00
					5 packs/case	\$205.00
2250 Series – 5000 µl Tip  Tip image is 58% of actual size	2250	89140-150	NP	B	250 tips/bag	\$45.84
					10 bags/case	\$382.63
	2252.S	89140-152	NP	S R	10 trays of 50/case	\$65.91

FEATURES



Sample Saving Surface



Sterile



Natural Polypropylene

PACKAGING OPTIONS



Racked



Rack & Stack



ESP Reload System
Empty rack needed (page 18)



Bulk

PIPETTE TIP COMPATIBILITY CHART

Pipettor Brand/ Model	Biohit™	Biohit Proline™	Biohit Proline Plus™	Brand Transferpette S™	Brand Transferpette Electronic™	Capp™	CLP Beta-Pette™	CLP Poseidon™	CLP Poseidon Electronic™	Eppendorf Reference™
2040 Series - 10 µl Micro Tip 		0.5-10 µl		0.5-10 µl		0.5-10 µl	0.1-2 µl 0.5-10 µl	0.2-2 µl 0.5-10 µl	2-20 µl	0.1-2.5 µl 0.5-10 µl
2340 Series - 10 µl Extended Length Tip 		0.5-10 µl		0.5-10 µl		0.5-10 µl	0.1-2 µl 0.5-10 µl	0.2-2 µl 0.5-10 µl	2-20 µl	0.1-2.5 µl 0.5-10 µl
2140 Series - 10 µl Ultra Micro Tip 		0.5-10 µl		0.5-10 µl		0.5-10 µl	0.1-2 µl 0.5-10 µl	0.2-2 µl 0.5-10 µl	2-20 µl	0.1-2.5 µl 0.5-10 µl
2100 Series - 200 µl Universal Tip 	M100 M200		10-100 µl 20-200 µl	2-20 µl 10-100 µl 20-200 µl	15-300 µl	5-50 µl 10-100 µl 30-300 µl	2-20 µl 10-100 µl 20-200 µl	5-50 µl 10-100 µl 20-200 µl 30-300 µl	10-200 µl	2-20, 10-100, 50-200 µl
2016 Series - 200 µl Extended Length Gel Tip* 	M100 M200		10-100 µl 20-200 µl	2-20 µl 10-100 µl 20-200 µl	15-300 µl	5-50 µl 10-100 µl 30-300 µl	2-20 µl 10-100 µl 20-200 µl	5-50 µl 10-100 µl 20-200 µl 30-300 µl	10-200 µl	2-20, 10-100, 50-200 µl
2150 Series - 200 µl Extended Length Tip* 	M100 M200		10-100 µl 20-200 µl	2-20 µl 10-100 µl 20-200 µl	15-300 µl	10-100 µl 30-300 µl	20-200 µl	5-50 µl 10-100 µl 20-200 µl 30-300 µl	10-200 µl	2-20, 10-100, 50-200 µl
2090 Series - 300 µl Universal Tip 	M100 M200		10-100 µl 20-200 µl	20-200 µl	15-300 µl	5-50 µl 10-100 µl 30-300 µl	20-200 µl	5-50 µl 10-100 µl 20-200 µl 30-300 µl	10-200 µl	50-200 µl
2110 Series - 1000 µl Traditional Shaped Tip* 		200-1000 µl		100-1000 µl			100-1000 µl	100-1000 µl	100-1000 µl	100-1000 µl
2160 Series - 1000 µl Universal Tip* 		200-1000 µl		100-1000 µl			100-1000 µl	100-1000 µl	100-1000 µl	100-1000 µl
2370 Series - 1000 µl Extended Length Tip 		200-1000 µl		100-1000 µl			100-1000 µl	100-1000 µl	100-1000 µl	100-1000 µl
2250 Series - 5000 µl Tip 										

*Pipette tip series marked with asterisk are not compatible with multichannel pipettors.

	100-1000 µl	100-1000 µl	100-1000 µl	10-100 µl 20-200 µl 30-300 µl	2-20 µl 10-100 µl 20-200 µl 30-300 µl	2-20 µl 10-100 µl 20-200 µl 30-300 µl	2-20 µl 10-100 µl 20-200 µl 30-300 µl	2-20 µl 10-100 µl 20-200 µl 30-300 µl	0.1-2.5 µl 0.5-10 µl	Eppendorf Research™
	100-1000 µl	100-1000 µl	100-1000 µl	50-200 µl	2-20 µl 10-100 µl	2-20 µl 10-100 µl	2-20 µl 10-100 µl	2-20 µl 10-100 µl	0.1-2.5 µl 0.5-10 µl	Eppendorf Research Plus™
	100-1000 µl 200-1000 µl	100-1000 µl 200-1000 µl	100-1000 µl 200-1000 µl	5-50 µl 20-200 µl 30-300 µl	2-20 µl 5-50 µl 20-200 µl 30-300 µl	2-20 µl 5-50 µl 20-200 µl 30-300 µl	2-20 µl 5-50 µl 20-200 µl 30-300 µl	2-20 µl 5-50 µl 20-200 µl 30-300 µl	0.5-10 µl 5-50 µl	Finnpipette™
	100-1200 µl	100-1200 µl	100-1200 µl	30-300 µl	30-300 µl	30-300 µl	30-300 µl	30-300 µl	1-10 µl	Finnpipette Electronic™
									1-10 µl	Finnpipette FI™
P5000	P1000	P1000	P1000	P200	P100 P200	P20 P100 P200	P20 P100 P200	P20 P100 P200	P2 P10	Gilson Pipetman™
U5000				U200	U200	U20 U200	U20 U200	U20 U200		Gilson Pipetman Ultra™
	100-1000 µl	100-1000 µl	100-1000 µl	2.5-25 µl 10-100 µl 30-300 µl	2.5-25 µl 10-100 µl 30-300 µl	2.5-25 µl 10-100 µl 30-300 µl	2.5-25 µl 10-100 µl 30-300 µl	2.5-25 µl 10-100 µl 30-300 µl	0.2-2 µl 1-10 µl	Hamilton™
	100-1200 µl	100-1200 µl	100-1200 µl							Labnet BioPette E™
	100-1000 µl	100-1000 µl	100-1000 µl	20-200 µl	10-100 µl 20-200 µl	2-20 µl 10-100 µl 20-200 µl	2-20 µl 10-100 µl 20-200 µl	2-20 µl 10-100 µl 20-200 µl	0.5-10 µl	Nichiyox Nichipet EX™
						2-20 µl	2-20 µl	2-20 µl	0.1-2 µl	Nichiyox Oxford Benchmark™
				50-300 µl				5-50 µl 50-300 µl	0.5-10 µl	Nichiyox Oxford Multimate™
	100-1000 µl	100-1000 µl	100-1000 µl	20-200 µl	10-100 µl 20-200 µl	10-100 µl 20-200 µl	10-100 µl 20-200 µl	10-100 µl 20-200 µl	1-10 µl	Socorex Calibra 822™
	100-1000 µl	100-1000 µl	100-1000 µl	2-20 µl 20-200 µl	2-20 µl 20-200 µl	2-20 µl 20-200 µl	2-20 µl 20-200 µl	2-20 µl 20-200 µl		VWR Ergonomic High Performance™
	100-1000 µl	100-1000 µl	100-1000 µl	2-20 µl 10-100 µl 20-200 µl	10-100 µl 20-200 µl	2-20 µl 10-100 µl 20-200 µl	2-20 µl 10-100 µl 20-200 µl	2-20 µl 10-100 µl 20-200 µl	0.1-2 µl 0.5-10 µl	VWR Ultra High Performance™

SPARE TRAYS



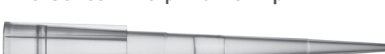
Manufactured from recycled polypropylene and developed to use the least amount of plastic. These spare trays are designed to fit Neptune's 10 µl, 10XL, 20 µl, 200 µl, 300 µl, 1000 µl and 1000XL pipette tips.

FEATURES:

- *Recyclable tray*
- *Maximum space saving design*
- *Less waste – reduce plastic waste by up to 90% over conventional trays in combination with our patented ESP reload system*

Neptune PN	VWR Cat. #	Rack Size	Packaging	Quantity	Price
2042.T	89140-874	10 µl	Tray with insert card for bulk tips	1 tray	\$3.22
				50 trays/case	\$102.43
2047.T	89140-876	10 µl	Tray without insert card for ESP reload	1 tray	\$3.19
				48 trays/case	\$102.63
2342.T	89173-578	10XL	Tray with insert card for bulk tips	1 tray	\$4.70
				50 trays/case	\$150.00
2347.T	89173-576	10XL	Tray without insert card for ESP reload	1 tray	\$4.70
				50 trays/case	\$150.00
2102.T	89140-906	200 µl	Tray with insert card for bulk tips	1 tray	\$3.22
				50 trays/case	\$103.02
2107.T	89140-908	200 µl	Tray without insert card for ESP reload	1 tray	\$3.20
				48 trays/case	\$102.39
2092.T	89140-872	300 µl	Tray with insert card for bulk tips	1 tray	\$4.81
				50 trays/case	\$152.2
2097.T	89168-776	300 µl	Tray without insert card for ESP reload	1 tray	\$4.70
				50 trays/case	\$150.00
2162.T	89140-928	1000 µl	Tray with insert card for bulk tips & ESP reload	1 tray	\$4.82
				30 trays/case	\$96.59
2372.T	89168-778	1000XL	Tray with insert card for bulk tips	1 tray	\$4.70
				32 trays/case	\$150.00
2377.T	89168-780	1000XL	Tray without insert card for ESP reload	1 tray	\$4.70
				32 trays/case	\$150.00

TRAY COMPATIBILITY CHART

	2042.T	2047.T	2342.T	2347.T	2102.T	2107.T	2092.T	2097.T	2162.T	2372.T	2377.T
2040 Series – 10 µl Micro Tip 	B	E									
2340 Series – 10 µl Extended Length Tip 			B	E							
2140 Series – 10 µl Ultra Micro Tip 			B								
2100 Series – 200 µl Universal Tip 					B	E					
2090 Series – 300 µl Universal Tip 							B	E			
2110 Series – 1000 µl Traditional Shaped Tip 									B		
2160 Series – 1000 µl Universal Tip 									B E		
2370 Series – 1000 µl Extended Length Tip 										B	E
BT20 Series – 20 µl Barrier Tip 						E					
BT200 Series – 200 µl Barrier Tip 								E			

PACKAGING OPTIONS

E ESP Reload System

B Bulk

Tray Compatibility Chart

BEST LABORATORY PRACTICES

Autoclaving: Staying within the Parameters

Dry Goods Sterilization

All tips and tubes are classified as “dry goods” for sterilization procedures. This means they have thin cross-sections, limited mass, hard surfaces, and require - MINIMUM AUTOCLAVE EXPOSURE. **Do not mix liquid-cycle or other types of materials with dry goods for sterilization.** During autoclaving the aerosols formed by evaporation of cell culture materials, agars, and other solutions will coat all exposed surfaces in the autoclave, including your tips and tubes.

When Autoclaving Neptune products, please stay within the parameters specified below:

Heat Exposure Recommendations for Autoclaving

Setting Temperature Time

“Dry good cycle” 121°C 10-15 minutes

Pressure at 15 PSI (approximately 1 atm.)

CAUTION: Over-Autoclaving Distortion

Pipette tips and tubes are precision manufactured to tolerances of less than 0.005 inches. Over autoclaving produces unseen distortions caused by excess heat and/or exposure time. Tubes that “pop” during boiling and loose fitting bent tips are often the result. To limit distortion, all tubes should be open during autoclaving and tips should be racked in trays. Do not exceed the time and temperature recommendations shown in the table. Excessive heating can also produce color changes in tubes or tray hot-stamped logos. **Do not “overcook” your plastic products.**

RCF Ratings for Centrifuge Tubes

Two important specifications for centrifuges are Revolutions Per Minute (RPM) and Relative Centrifugal Force (RCF). Of the two specifications, Relative Centrifugal Force (RCF), or G force, is a standard unit of measure across all centrifuges and can be calculated using the the formula below. Setting the RCF too high can cause a centrifuge tube to crack, and shatter. It is imperative that the end user confirms their RCF setting before beginning centrifugation.

RCF Value Equation

$$\text{RCF} = 0.00001118 \times \text{radius} \times \text{RPM}^2$$

RCF: Relative centrifugal force

Radius: rotor radius in centimeters

RPM: maximum RPM

Cryogenic Storage for Neptune Cryotubes and Cryovials

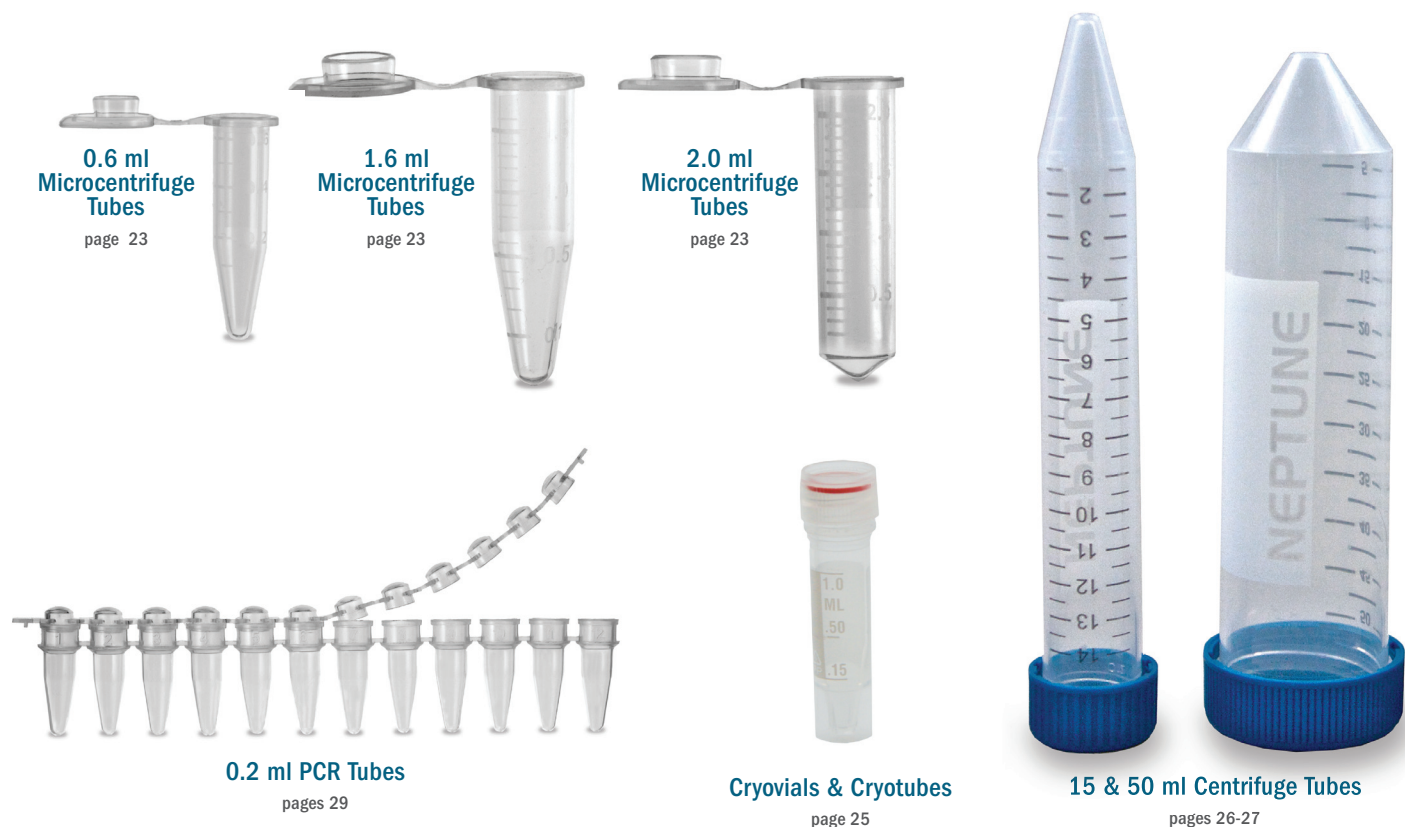
Liquid vs. Vapor Phase Storage

All cryogenic containers are designed for vapor phase storage, but can withstand contact with liquid phase nitrogen. We advise against routine liquid phase storage because of the explosive potential of liquid N₂ when exposed to room temperatures.

Tubes

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TUBES OVERVIEW



Microcentrifuge Tubes

Neptune offers a full line of quality tubes for laboratory use. Neptune microcentrifuge tubes are ideal for a wide array of laboratory procedures, can withstand up to 20,000 RCF and are boil proof. We also offer a fine selection of cryovials and cryotubes designed for cryogenic sample storage. Available with and without locking bases, these tubes feature special thread designs and silicone o-rings to ensure sample viability for long term storage.

Mini Tube System

The minitube system by Neptune is designed for labs in need of the functionality of a tube, but require the 96-well format for robotics. The system features a standard 8 x 12 format with pre-racked 1.1 ml single or 8 strip mini-tubes. Product is available in both sterile and non-sterile formats.

Centrifuge Tubes

Neptune centrifuge tubes have an updated body design featuring a frosted writing area, wider knurls for grip and a recyclable cardboard tray for the 15 ml tubes. Made from high quality polypropylene, our 15 and 50 ml

tubes are designed to withstand up to 15,000 RCF and are stamped with specially formulated inks resistant to most laboratory solvents.

PCR Tubes

Neptune offers a collection of high quality 0.2 to 0.6 ml thin walled tubes specifically manufactured for PCR applications. Thin walled tubes improve conduction between the PCR reaction and the thermal cycler block, improving cycling efficiency. The clarity of the thin walled tubes enables visualization of components being mixed. Our strip tubes are available with attached caps to reduce splash and cross contamination, or with detached caps for high throughput labs.

All of our sterile packaged products are electron beam irradiated and are certified RNase, DNase and Endotoxin free.



0.6, 1.6, and 2.0 ml Microcentrifuge Tubes

These flat-cap graduated tubes are frosted on the top and sides for convenient sample labeling. Graduations from 0.1 ml to 2.0 ml make them ideal for many uses. Assorted colors are mixed in a unit pack.



FEATURES:

- Labeled graduations at 100 µl
- Spin: 20,000 RCF
- Frosted side & cap for sample labeling
- Made of virgin polypropylene
- Flat Cap
- DNase, RNase and Endotoxin-Free
- Autoclavable (121°C, 15 psi, 15 minutes)

	Neptune PN	VWR Cat. #	Tube Type	Packaging	Quantity/tubes	Price
0.6 ml Graduated Microcentrifuge Tubes  Actual size	3735.X	89126-716	NP	B	1000 tubes/pack	\$47.29
					10 packs/case	\$397.52
	3735.A.X	89126-710	NP AC	B	1000 tubes/pack	\$47.19
					10 bags/case	\$395.84
	3735.S.X	89126-714	NP	S B	500 tubes/pack	\$26.63
					10 bags/case	\$244.86
1.6 ml Graduated Microcentrifuge Tubes – Easy Seal Series  Tube image is 80% of actual size	3735.AS.X	89126-712	NP AC	S B	500 tubes/pack	\$26.69
					10 packs/case	\$244.97
	4445.X	89134-506	NP	B	500 tubes/pack	\$29.66
					10 packs/case	\$224.66
	4445.A.X	89134-500	NP AC	B	10 bags of 50 tubes/pk	\$29.55
					10 packs/case	\$224.44
1.6 ml Graduated Microcentrifuge Tubes – Tight Seal Series  Tube image is 80% of actual size	4445.S.X	89134-504	NP	S B	10 bags of 50 tubes/pk	\$38.83
					10 bags/case	\$275.13
	4445.AS.X	89134-502	NP AC	S B	10 bags of 50 tubes/pk	\$38.83
					10 bags/case	\$275.13
	3745.X	89126-724	NP	B	500 tubes/pack	\$28.43
					10 packs/case	\$244.83
2.0 ml Graduated Microcentrifuge Tubes  Actual size	3745.A.X	89126-718	NP AC	B	500 tubes/pack	\$28.43
					10 packs/case	\$244.83
	3745.S.X	89126-722	NP	S B	250 tips/pack	\$19.52
					10 packs/case	\$163.47
	3745.AS.X	89126-720	NP AC	S B	250 tubes/pack	\$19.52
					10 packs/case	\$163.47
	3765.X	89126-730	NP	B	500 tubes/pack	\$28.35
					10 bags/case	\$244.97
	3765.A.X	89126-726	NP AC	B	500 tubes/pack	\$28.30
					10 bags/case	\$244.97
	3765.S.X	89126-728	NP	S B	250 tubes/pack	\$19.21
					10 packs/case	\$163.38

FEATURES



Sterile



Natural Polypropylene



* AC ** Assorted Colors

*Blue, Green, Yellow, Orange, Red, Lavender

**Blue, Green, Yellow, Red, Lavender

PACKAGING



Bulk

MINITUBE SYSTEM & MICROTUBES

Minitube System

This system provides you with pre-racked 1.1 ml minitubes in standard 96-well format, with single tubes or strips of 8. This is an ideal system for microplate-to-tube transfer, and features a standard 8 x 12 format. The alphanumeric labeled, non-reversing rack and lid ensure positive sample identification. Condensation

rings above each tube minimize cross contamination between wells, and the system is completely autoclavable (except for optional mini-cap strips). The rack base is fully compatible with all popular robotic instruments.



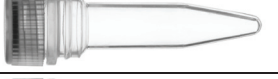
	Neptune PN	VWR Cat. #	Tube Type	Packaging	Quantity	Price
	2600.X	89092-224	NP	B T	960 tubes/bag	\$35.82
					5 bags/case	\$137.66
	2600.8.X	89092-226	NP	B T	120 strips/bag	\$39.65
					5 bags/case	\$165.15
	2601.X	89092-228	NP	R T	10 trays of 96/pack	\$54.53
					5 packs/case	\$247.85
	2601.S.X	89092-274	NP	S R T	10 trays of 96/pack	\$63.57
					5 packs/case	\$302.90
	2601.8.X	89092-230	NP	R T	10 trays of 96/pack	\$57.72
					5 packs/case	\$275.00
	2601.8S.X	89092-272	NP	S R T	10 trays of 96/pack	\$68.22
					5 packs/case	\$324.40
	2602.8.X	89092-232	NP	B C	120 strip caps/pack	\$28.69
					5 packs/case	\$110.31
	2602.8S.X	89092-276	NP	S B C	120 strip caps/pack	\$30.03
					5 packs/case	\$115.51

TUBE TYPE NP Natural Polypropylene **PACKAGING** S Sterile B Bulk R Racked C Caps Only T Tubes Only

Screw Cap MicroTubes

Silicone O-ring seals on Neptune screw cap microtubes ensure a positive leak-proof seal, retaining sample integrity under the most challenging

conditions. They are ideal for freezer storage, centrifugation up to 30 min. at 30,000 RCF, and fit most standard microcentrifuge rotors.

	Neptune PN	VWR Cat. #	Tube Type	Packaging	Quantity	Price
0.5 ml		3733.S.X	NP	S B TC	250 tubes/bag	\$42.62
					10 bags/case	\$387.62
1.5 ml		3743.S.X	NP	S B TC	250 tubes/bag	\$43.14
					10 bags/case	\$387.44
2.0 ml		3763.S.X	NP	S B TC	250 tubes/bag	\$43.14
					10 bags/case	\$387.44
0.5 ml		3734.S.X	NP	S B TC	250 tubes/bag	\$42.78
					10 bags/case	\$387.35
1.5 ml		3744.S.X	NP	S B TC	250 tubes/bag	\$43.27
					10 bags/case	\$387.52
2.0 ml		3764.S.X	NP	S B TC	250 tubes/bag	\$42.89
					10 bags/case	\$387.42

TUBE TYPE NP Natural Polypropylene **PACKAGING** S Pre-Sterile B Bulk TC Tubes & Caps

Cryovials

Neptune Cryovials are designed for the storage of biological material at temperatures as low as -190°C . The cap features a long skirt for one hand aseptic techniques and a specially designed lip

inside the cap ensures a leak-proof seal. The cap and tube are made of virgin polypropylene with matched thermal coefficients to further ensure leak-proof performance. Height: 0.492 in. (12.5 mm)

	Neptune PN	VWR Cat. #	Tube Type	Packaging	Quantity	Price
2.0 ml 	3102.X	89092-235	NP	S B TC	100 tubes/bag	\$42.78
					10 bags/case	\$407.27
3.0 ml 	3103.X	89092-236	NP	S B TC	100 tubes/bag	\$54.47
					10 bags/case	\$495.72
4.0 ml 	3104.X	89131-706	NP	S B TC	100 tubes/bag	\$50.33
					10 bags/case	\$503.30
 Cap Inserts Assorted Colors	3120.A.X	89092-278	AC	B	500 inserts/case	\$19.83

TUBE TYPE NP Natural Polypropylene

PACKAGING S Sterile B Bulk TC Tubes & Caps AC Assorted Colors

Cryotubes

Neptune cryotubes with locking bases offer significant advantages over traditional cryovial storage. The smaller outside diameter and molded spin collar allow storage of 100 cryotubes in the same space

as 81 cryovials. Neptune cryotubes are manufactured from virgin polypropylene with silicone O-rings to seal at temperatures from -196 to $+121^{\circ}\text{C}$. Dimensions: 0.51 x 1.85 in. (13 x 47 mm)

	Neptune PN	VWR Cat. #	Tube Type	Packaging	Quantity/tubes	Price
0.5 ml 	3470.X	89092-258	NP	S B TC	10 bags of 50/case	\$137.62
1.5 ml 	3471.X	89092-260	NP	S B TC	10 bags of 50/case	\$137.54
1.8 ml 	3472.X	89092-262	NP	S B TC	10 bags of 50/case	\$137.46
 Cap Inserts Assorted Colors	3121.A.X	89131-708	AC	B	500 inserts/case	\$19.40

TUBE TYPE NP Natural Polypropylene

PACKAGING S Sterile B Bulk AC Assorted Colors

15 and 50 ml Centrifuge Tubes



15 and 50 ml Centrifuge Tubes

15 and 50 ml Centrifuge Tubes are manufactured from recyclable virgin polypropylene and are designed to handle the rigors of everyday lab work. All tubes feature easy to read graduation marks and large frosted writing areas on the cap and side. Our design includes a leak resistant cap with wider knurls for effective gripping.

The 15 ml tube has black graduation markings from 1 to 14 ml and is centrifuge speed rated to 15,000 x g. The 50 ml tube has black graduation markings from 5 to 50 ml and is rated to 9,500 x g. All tubes have a flat top rim seal cap manufactured from high-density polyethylene, and a $\frac{3}{4}$ turn closure, increasing speed and simplicity in a one-handed operation.

Approximate Dimensions:

15 ml tube: 18.6 x 119.5 mm tube only, 22 x 120.5 mm with cap

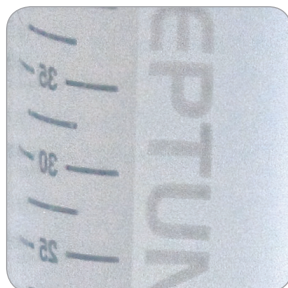
50 ml tube: 29.5 x 114.5 mm tube only, 34.9 x 115.5 mm with cap

Specifications

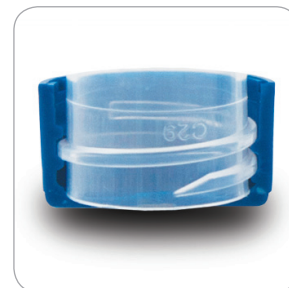
Tube Volume	15 ml	50 ml
Composition	Polypropylene	Polypropylene
Length with cap (mm)	120.5	115.5
Diameter with cap (mm)	22	34.9
Max. Centrifugation RCF (fixed-angle rotor)	15,000 x g	9,500 x g
Autoclavable without cap (121°C, 15 minutes, >15 psi)	Yes	Yes
Hydrostatic Pressure Test (95 kPa without leakage)	Pass	Pass
Labeled Graduations	1-14 ml	5-50 ml
Frosted Cap & Side	Yes	Yes



- Easy to read graduations



- Large writing surface for labeling
15 ml (50 x 7 mm)
50 ml (50 mm x 18 mm)



- Easy ON/OFF leak resistant caps



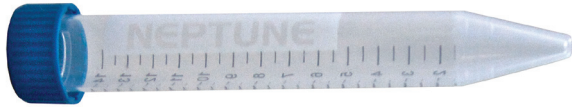
- Designed for one-handed operation



- Autoclavable tubes without caps (121°C, 15 psi, 15 minutes)



- Available in bulk or racked configurations

Neptune Centrifuge Tubes	Neptune PN	VWR Cat. #	Tube Type	Packaging	Quantity/Tubes	Price
15 ml Centrifuge Tubes with Flat Top Rim Seal Caps 	2571.X	89097-448	NP	S R	1 rack of 50	\$26.26
					10 racks of 50	\$202.62
	2570.X	89097-450	NP	S B	1 bag of 50	\$25.45
					10 bags of 50	\$182.19
50 ml Centrifuge Tubes with Flat Top Rim Seal Caps 	2576.X	89097-452	NP	S R	1 rack of 25	\$16.97
					20 racks of 25	\$241.81
	2575.X	89097-454	NP	S B	1 bag of 50	\$27.57
					10 bags of 50	\$196.73

TUBE TYPE NP Natural Polypropylene

PACKAGING OPTIONS

S Sterile

R Racked

B Bulk

PCR TUBES

Our Neptune 0.2 ml microtubes for PCR are made of high quality virgin polypropylene and feature thin walls for efficient heat transfer. They are available in single tube format, strip tubes with attached caps and with separate caps. Neptune PCR tubes are compatible with most leading thermal cyclers. Tubes and caps are autoclavable and are available in assorted colors.

FEATURES:

- Thin walled tube for best heat transfer
- Made of virgin polypropylene
- Domed and flat caps available
- DNase, RNase and Endotoxin-Free
- Autoclavable (121°C, 15 psi, 15 minutes)

	Neptune PN	VWR Cat. #	Tube Type	Packaging	Quantity	Price
0.2 ml PCR Tubes with Flat Cap 	3423.X	89091-880	CL	B TC	1000 tubes/pack	\$56.98
					10 packs/case	\$517.32
	3423.A.X	89092-014	AC	B TC	10 bags of 100/pack	\$56.95
					10 packs/case	\$516.89
	3423.S.X	89092-026	CL	S B TC	10 bags of 100/pack	\$56.69
					10 packs/case	\$539.61
0.2 ml PCR Tubes with Domed Cap 	3425.X	89091-882	CL	B TC	1000 tubes/pack	\$56.92
					10 packs/case	\$517.49
	3425.A.X	89092-030	AC	B TC	10 bags of 100/pack	\$54.37
					10 packs/case	\$517.51
	3425.S.X	89092-042	CL	S B TC	10 bags of 100/pack	\$56.71
					10 packs/case	\$539.85
0.6 ml PCR Tubes with Flat Cap 	3737.X	89126-738	CL	B TC	1000 tubes/pack	\$60.70
					10 packs/case	\$530.96
	3737.A.X	89126-732	AC	B TC	1000 tubes/pack	\$60.33
					10 packs/case	\$530.59
	3737.S.X	89126-736	CL	S B TC	1000 tubes/pack	\$84.05
					10 packs/case	\$694.04
0.2 ml PCR 8-Strip Tubes with attached Domed Cap 	3428.8.X	89092-242	CL	B TC	10 bags of 12/pack	\$114.38
					10 packs/case	\$1089.19
	3428.8A.X	89092-292	AC	B TC	10 bags of 12/pack	\$114.31
					10 packs/case	\$1089.43
	3728.8S.X	89126-688	CL	S B TC	10 bags of 12/pack	\$123.13
					10 packs/case	\$1121.62
	3728.8AS.X	89126-686	AC	S B TC	10 bags of 12/pack	\$123.13
					10 packs/case	\$1121.62

TUBE TYPE NP Natural Polypropylene S Sterile CL Clear AC Assorted Colors*

PACKAGING OPTIONS B Bulk T Tubes Only C Caps Only TC Tubes & Caps

*Assorted colors include:
Blue, Green, Lavender, Red, Yellow

	Neptune PN	VWR Cat. #	Tube Type	Packaging	Quantity/strips	Price
0.2 ml PCR 8-Strip Tubes with Separate Strip Caps 	3426.8.X	89091-884	CL	B T	5 bags of 25/pack	\$102.71
					10 packs/case	\$978.37
	3426.8A.X	89092-046	AC	B T	5 bags of 25/pack	\$102.92
					10 packs/case	\$980.06
	3426.8S.X	89092-050	CL	S B T	5 bags of 25/pack	\$114.41
					10 packs/case	\$1088.92
	3426.8AS.X	89092-048	AC	S B T	5 bags of 25/pack	\$63.07
					10 packs/case	\$600.10
	3427.8.X	89091-886	CL	B C	125 strip caps/pack**	\$35.80
					10 packs/case	\$275.12
	3427.8A.X	89092-052	AC	B C	125 strip caps/pack**	\$35.83
					10 packs/case	\$275.41
0.2 ml PCR 12-Strip Tubes with Separate Strip Caps 	3426.12.X	89092-238	CL	B T	80 strip tubes/pack	\$114.29
					10 packs/case	\$1089.62
	3426.12A.X	89092-280	AC	S B T	80 strip tubes/pack	\$114.47
					10 packs/case	\$1090.18
	3726.12S.X	89126-680	CL	S B T	80 strip tubes/pack	\$117.49
					10 packs/case	\$1041.69
	3726.12AS.X	89126-678	AC	S B T	80 strip tubes/pack	\$128.30
					10 packs/case	\$1132.39
	3427.12.X	89092-240	CL	B C	80 strip caps/pack	\$35.79
					10 packs/case	\$274.95
	3427.12A.X	89092-286	AC	B C	80 strip tubes/pack	\$35.77
					10 packs/case	\$274.97
	3727.12S.X	89126-684	CL	S B C	80 strip caps/pack	\$38.70
					10 packs/case	\$336.91
	3727.12AS.X	89126-682	AC	S B C	80 strip tubes/pack	\$38.39
					10 packs/case	\$336.48

FEATURES

S Sterile **NP** Natural Polypropylene **CL** Clear **AC** Assorted Colors*

PACKAGING OPTIONS

B Bulk **T** Tubes Only **C** Caps Only **TC** Tubes & Caps

*Assorted colors include: Blue, Green, Lavender, Red, Yellow

**Each pack includes 10 bags of 12 strips, and 1 bag of 5 strips

PLATES & SEALS



PCR Plates
page 32



Microtiter Plates
page 31



PCR Plates and Seals
page 33

Neptune offers an expansive line of plates for high throughput PCR and related lab procedures.

All PCR plates are molded from high performance polypropylene and feature thin walls for efficient heat transfer. Plates are available with optional color-coding in both a skirted and non-skirted version for use with robotic handling equipment. Compatible with many of the latest thermal cyclers on the market, our Neptune PCR plates are available in 96-well low profile, non-skirted, semi-skirted and fully skirted versions. Please refer to our plate selection chart (see pages 34-35) for specific thermal cycler compatibility.

For non-PCR applications we offer a line of Neptune microtiter plates. These plates are designed with working volumes greater than 0.65 ml and are ideal for cell culture and storage applications. With Megatiter™ plates you get the 96-well format with the largest working volume: 2.2 ml per well. All of our Microtiter plates adhere to SBS standards and are compatible with many of today's automated laboratory workstations.

Neptune plate seals work with all of our plates, forming seamless integration between research and storage. Please see individual product description pages for plate seal compatibility.

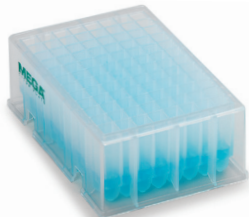
MICROTITER PLATES AND SOLUTION BASINS

Minititer™ 0.65 ml Plate

Neptune's 0.65 ml plate features a raised rim design which offers a secure seal and helps prevent cross contamination.

Megatiter™ Plate

Neptune's 2.2 ml plate offers the working volume of a culture tube and the convenience of a 96 well format. With a conical bottom, it provides easy sample retrieval.

	Neptune PN	VWR Cat. #	Packaging	Quantity	Price
Minititer Plate 	2406.X	89092-216	B	50 plates/case	\$164.56
	2405.X	89091-856	B	24 plates/case	\$100.75
Megatiter Plate 	2405.S.X	89092-008	S B	24 plates/case	\$111.35

PACKAGING **S** Sterile **B** Bulk

Labcor™ Solution Basins

Our sturdy solution basins are designed with a V-shaped bottom and are compatible with 8 and 12 channel pipettors. The inside walls of these disposable basins are graduated for accurate filling and corners are indented for easy pour off.

Both Polystyrene and PVC materials allow the solution level to be viewed through the side of the units. Lids for sterile solution basins minimize evaporation, eliminate contamination and are constructed from ultra-clear APET (Amorphous Polyethylene Terphthalate)

FEATURES:

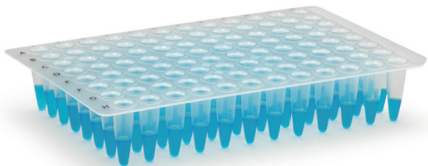
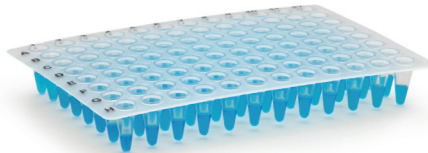
- Easy-tear sterile packaging
- Durable body construction



	Neptune PN	VWR Cat. #	Basin Type	Packaging	Quantity	Price
Labcor Solution Basins 	55 ml Solution Basins					
	730-001	21007-970	PVC	B	100 basins/case	\$68.25
	730-004	21007-972	P	S 1/bag	80 basins/case	\$124.15
	730-006	89092-832	P	S 5/bag	160 basins/case	\$79.18
	730-021	89092-840	APET	B	20 lids/case	\$28.37
	100 ml Solution Basins					
	730-011	89092-834	P	S B	100 basins/case	\$66.49
	730-014	89092-836	P	S 1/bag	80 basins/case	\$117.99
	730-016	89092-838	P	S 5/bag	160 basins/case	\$94.81

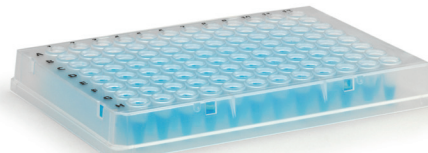
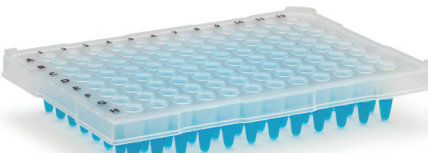
BASIN TYPE **P** Polystyrene PACKAGING **S** Sterile **B** Bulk

PCR PLATES

	Neptune PN	VWR Cat. #	Packaging	Quantity	Price
Full Profile Plate 	3730.X	89126-692	B	10 plates/pack 10 packs/case	\$182.81
Low Profile Plate 	3438.X	89092-253	B	20 plates/pack 5 packs/case	\$475.15
8 Strip Caps for PCR plates 	3731.X	89126-690	B	125 strips/pack	\$21.63
				10 packs/case	\$193.78

PACKAGING **B** Bulk

Please refer to the PCR plate compatibility chart on pages 34-35

	Neptune PN	VWR Cat. #	Packaging	Quantity	Price
Fully Skirted Plate 	3732.X	89126-696	B	10 plates/pack 10 packs/case	\$182.81
Semi Skirted Plate 	3742.X	89126-694	B	10 plates/pack 10 packs/case	\$182.81
8 Strip Caps for PCR plates 	3731.X	89126-690	B	125 strips/pack	\$21.42
				10 packs/case	\$192.00

PACKAGING **B** Bulk

Please refer to the PCR plate compatibility chart on pages 34-35

Plate Sealing Tape

Our plate sealing tape is a 2 mm thick, non-pierceable polypropylene film. This seal is not recommended for sealing raised rim plates. Functional temperature range: -40°C to 125°C

	Neptune PN	VWR Cat. #	Packaging	Quantity	Price
	2412.X	89092-222	B	100/case	\$58.33

SilverSeal

SilverSeal, our Aluminum sealing tape, is ideal for PCR and sample storage. It is chemically resistant, yet is soft enough to conform to the plate and pierceable for robotic systems. Functional temperature range: -70°C to 120°C

	Neptune PN	VWR Cat. #	Packaging	Quantity	Price
	2410.X	89092-220	B	100/case	\$79.57

PCR and Real-Time PCR Plate Seal

Our 2 mm optically clear plate seal offers the clarity essential in real-time reactions; an aggressive seal perfect for reducing evaporation experienced during thermal cycling. The tape is backed with a smooth, non-absorbing, non-fluorescing medical-grade adhesive for superior performance. Functional temperature range: -40°C to 120°C

	Neptune PN	VWR Cat. #	Packaging	Quantity	Price
	2409.X	89092-218	B	100/case	\$110.00

PACKAGING **B** Bulk

PCR PLATE COMPATIBILITY CHART

Plate PN		3730.X	3438.X	3742.X	3732.X
Standard well (Overall height approx. 21 mm, max capacity > 350 µl)		●		●	
Low well (Overall height approx. 16 mm, max capacity > 200 µl)			●		●
Applied Biosystems					
Thermal Cyclers	2700	●		●	
	9600	●		●	
	9700	●		●	
	9800 "Fast"				
	Veriti 0.1mL				
	Veriti 0.1mL				
	Veriti 384				
"Real Time" Thermal Cyclers	5700	●		●	
	PRISM 7000	●		●	
	7300	●		●	
	7500	●		●	
	7500 "Fast"				
	7700	●		●	
	7900HT	●		●	
	Step One				
	Step One plus				
Sequencers	PRISM 310	●		●	
	PRISM 3100	●		●	
	3130 (XL)	●		●	
	3700	●		●	
	PRISM 3730 (XL)	●		●	
Amersham					
Sequencers	MegaBACE 500				●
	MegaBACE 1000				●
Beckman					
Sequencers	CEQ	●			
Biometra					
Thermal Cyclers	Uno	●	●	●	●
	Uno II	●	●	●	
	T1 Thermal Cycler	●	●	●	●
	Tgradient	●	●	●	●
	Trobot	●	●	●	●
Bio-Rad/MJ Research					
Thermal Cyclers	Gene Cycler	●		●	
	PTC-100	●	●		●
	PTC-200	●	●		●
	PTC-225 Tetrad	●	●		●
	Dyad/Dyad Disciple	●	●		●
	iCycler	●			●
	Mycycler	●			
	Mini Gradient	●	●		
	Personal	●			
	DNA Engine Family	●	●		●
	C1000/S1000	●	●		●
"Real Time" Thermal Cyclers	Opticon/Opticon2	●	●		●
	Chromo-4		●		●
	iCycler	●			●
	MyiQ	●			●
	iQ5	●			●
	CFX96				●
	CFX384				
Sequencers	BaseStation				●

Plate Part Number		3730.X	3438.X	3742.X	3732.X
Corbett Research (Qiagen)					
Thermal Cyclers	Palm Cyclers 96		●		●
	Palm Cyclers 384				
	RotorGene				
Eppendorf					
Thermal Cyclers	Mastercycler	●	●		●
	Mastercycler Gradient	●		●	
	Mastercycler ep	●	●		●
	Mastercycler M384				
"Real Time" Thermal Cyclers	Mastercycler ep Realplex				●
Erlecom					
"Real Time" Thermal Cyclers	Power Block I	●	●	●	
	Deltacycler I	●	●		
	Deltacycler II	●	●	●	
	Single Block	●	●		
	Twin Block	●	●		
Esco					
Thermal Cyclers	Swift	●			
G-Storm					
Thermal Cyclers	GS1	●	●	●	
	GS4	●	●	●	
	GSX	●	●	●	
	GSXs	●	●	●	
MWG					
Thermal Cyclers	Primus 96	●	●	●	●
	Primus 384				
Stratagene					
Thermal Cyclers	Robocycler 96	●			
	Robocycler Gradient	●	●	●	●
"Real Time" Thermal Cyclers	Mx4000	●	●	●	
	Mx3000	●	●	●	
TaKaRa					
Thermal Cyclers	TP240				●
	TP3000	●	●	●	●
Techn					
Thermal Cyclers	Touchgene	●	●	●	
	Cyclogene	●	●	●	
	Genius	●	●	●	
	Genius Quad	●	●	●	
	Genius (TC412)	●	●	●	●
	Flexigene	●	●	●	●
	Touchgene X	●	●		●
	Touchgene Gradient (TC512)	●	●	●	●
"Real Time" Thermal Cyclers	Quantica		●		●
Thermo Hybaid					
Thermal Cyclers	PCR Sprint	●	●	●	●
	MBS Satellite System	●	●	●	●
	Px2	●	●	●	●
	PxE	●	●	●	●
	PCR Express	●	●	●	●
	Omni-E	●	●	●	●
	Touchdown	●	●	●	●
	Omnigene	●	●	●	●
Transgenomic					
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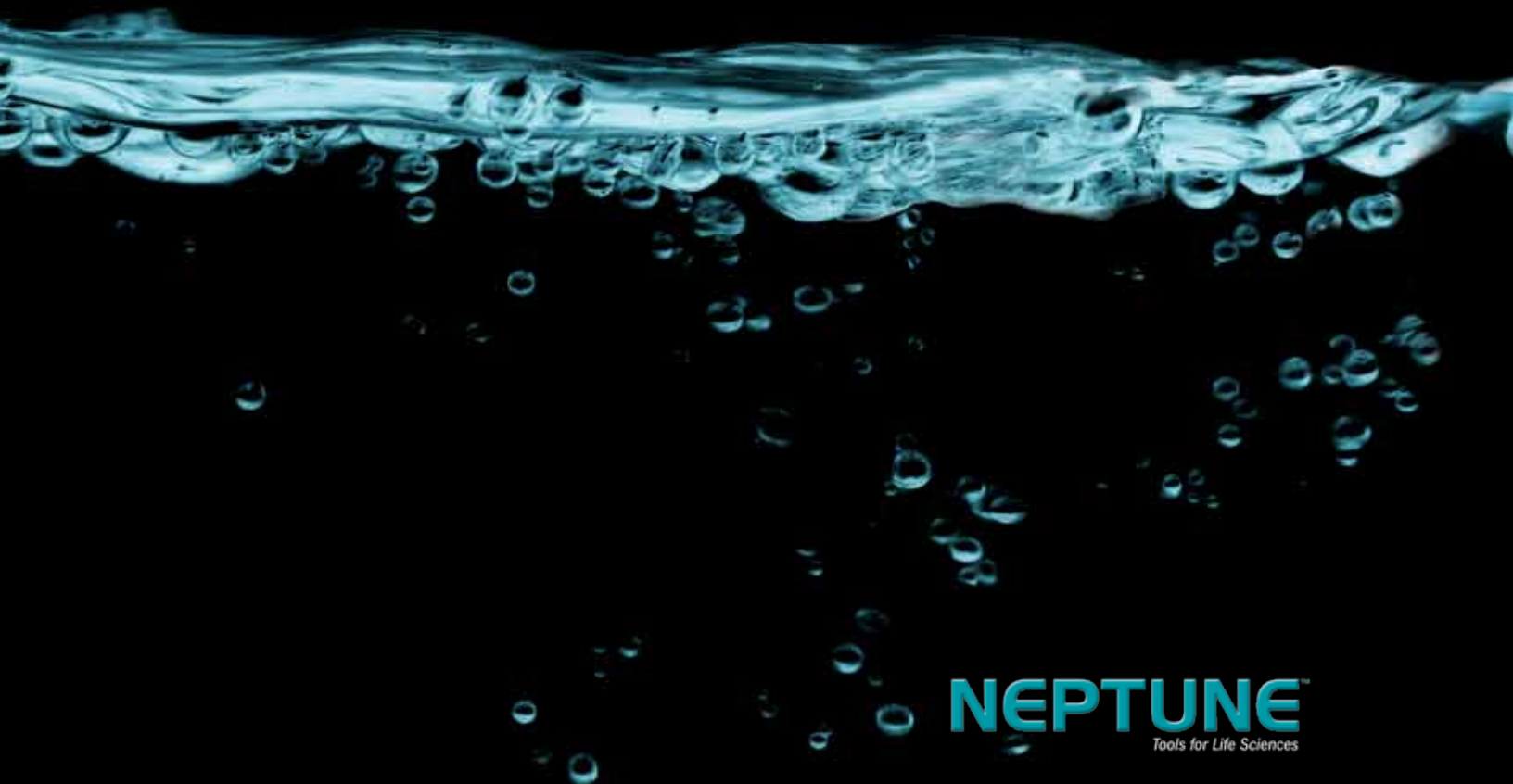
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