NEPTUNE™

Tools for Life Sciences

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
S^3 (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

NEPTUNE
Certified Free
DNASE
RNASE
ENDOTOXIN
DNA

COMMITMENT TO QUALITY

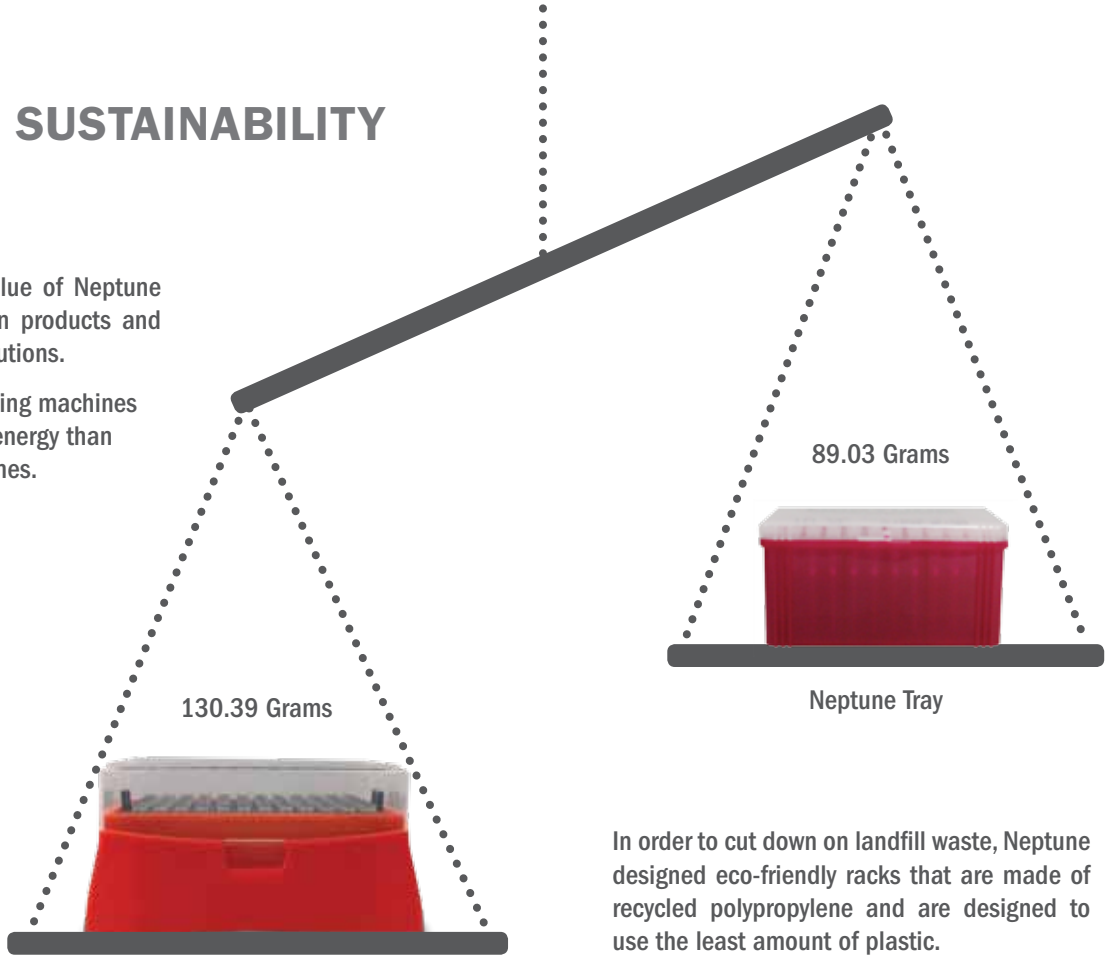
Our tips are manufactured under stringent controls in Neptune's ISO 9001:2008 certified facility. Neptune's advanced manufacturing process continually monitors the quality of products and individual batch testing ensures Neptune products are certified RNase, DNase, DNA and Endotoxin-free.

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 packaged products are electron beam irradiated and regularly tested by 14 day cultures to monitor for bacterial and fungal bioloads.
Molecular Purity	Inhibitors	Neptune products contain non-detectable levels of PCR inhibitors based on testing with both human and bacterial templates.
	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, with testing less than 0.06 EU/ml of endotoxins.

STANCE ON SUSTAINABILITY

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

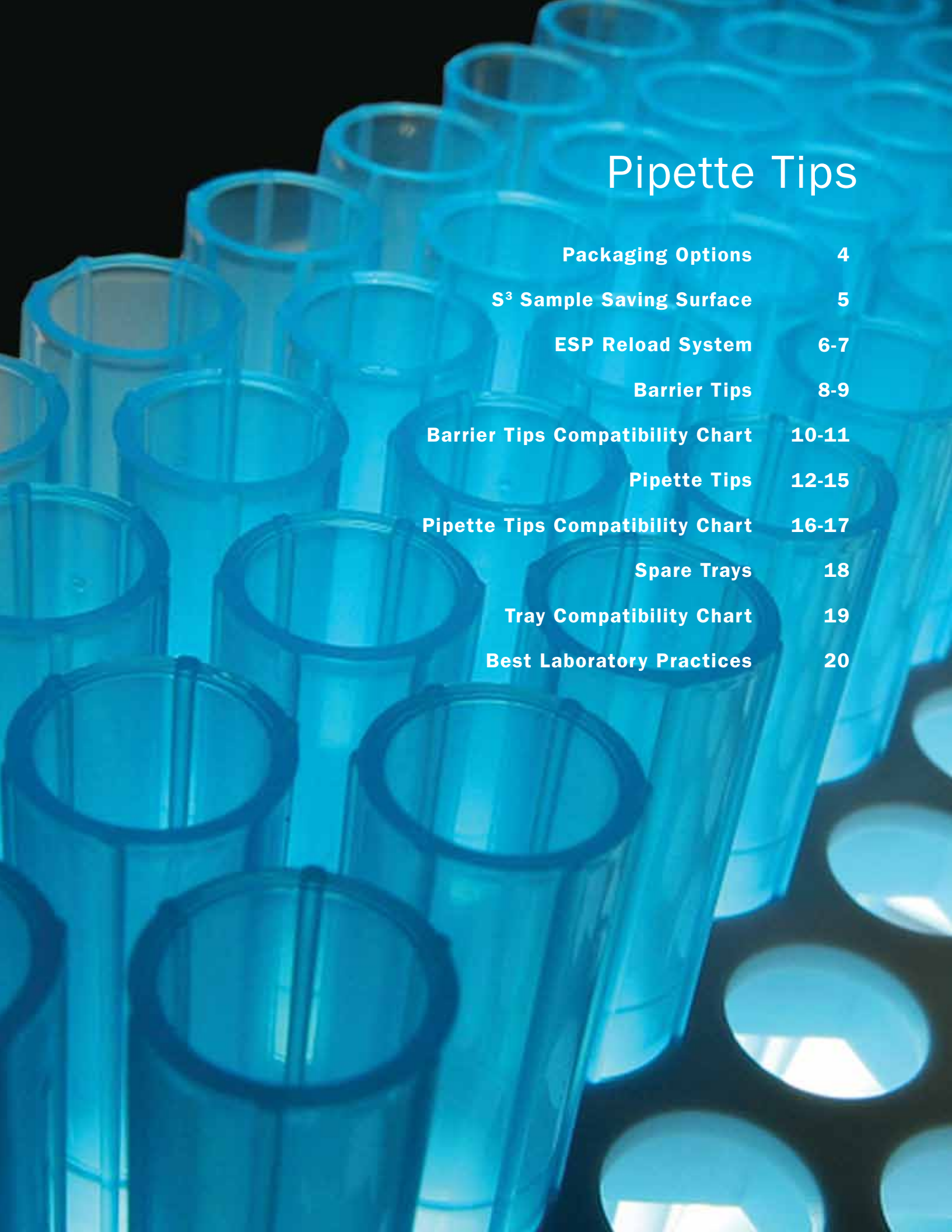
Neptune's injection molding machines consume one-third less energy than standard molding machines.



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

PACKAGING OPTIONS

Bulk

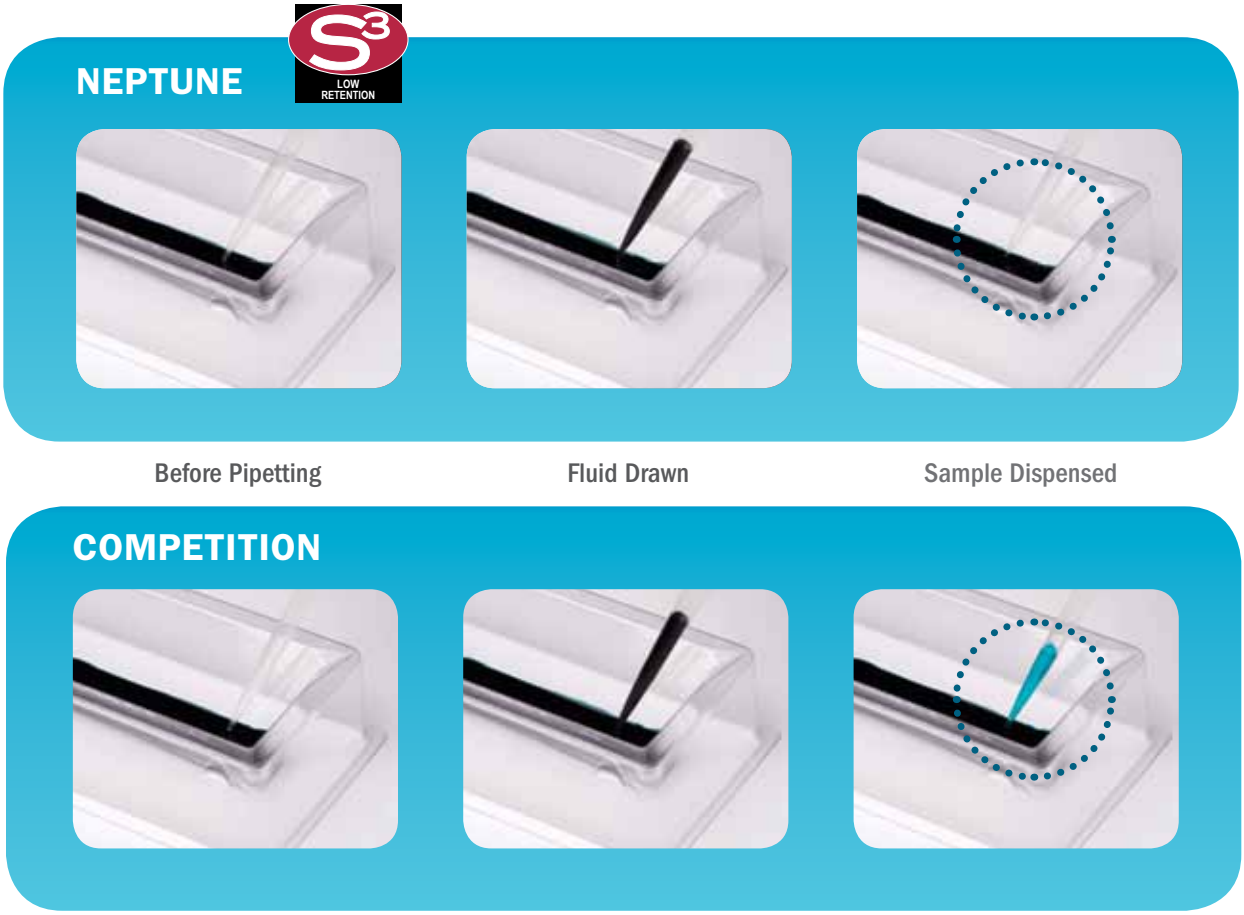
Racked

Rack & Stack

ESP™ Reload System

BT-ESP™

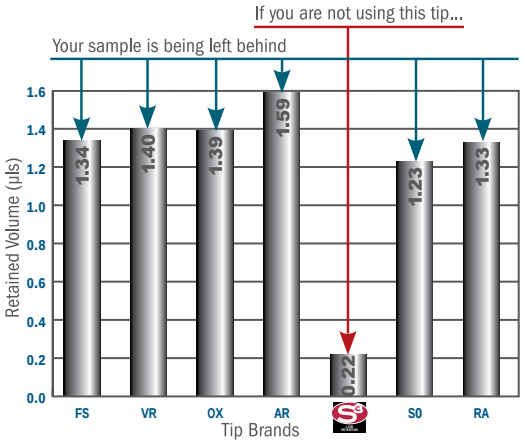
S³ SAMPLE SAVING SURFACE



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

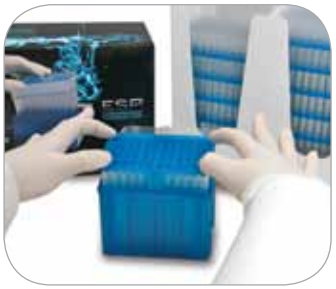
Secure plate by firmly pressing on all four corners of the alignment plate

Firmly depress the release button using your index finger

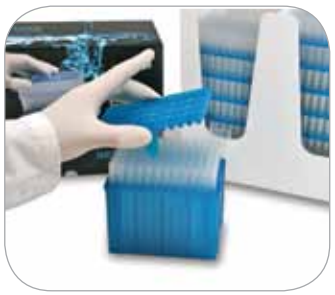
1250 µl ESP System

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*
- *PCR Inhibitors*
- *DNase & RNase*
- *Endotoxins (Pyrogens)*

	Neptune PN	Tip Type	Packaging	Quantity
BT10 Series – 10 µl Barrier Tip  *Actual size*	BT10	S³	R S	10 trays of 96/pack 5 packs/case
BT10XL Series – 10 µl Extended Length Barrier Tip  *Actual size*	BT10XLS3	S³	R S	10 trays of 96/pack 5 packs/case
	BT10XL	NP	R S	10 trays of 96/pack 5 packs/case
BT10E Series – 10 µl Eppendorf™ Style Barrier Tip  *Actual size*	BT10E	S³	R S	10 trays of 96/pack 5 packs/case
BT10F Series – 10 µl Finn™ Style Barrier Tip  *Actual size*	BT10F	S³	R S	10 trays of 96/pack 5 packs/case
BT20 Series – 20 µl Barrier Tip  *Actual size*	BT20	S³	R S	10 trays of 96/pack 5 packs/case
	BT20-ESP	S³	E S	10 inserts of 96/pack 4 packs/case

FEATURES S³ Sample Saving Surface · S Sterile · NP Natural Polypropylene

PACKAGING OPTIONS R Racked · RS Rack & Stack · E ESP Reload System *Empty rack needed (pg 18)* · B Bulk

Product Identification

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

	Neptune PN	Tip Type	Packaging	Quantity
BT100 Series – 100 µl Barrier Tip  *Actual size*	BT100	S³	R S	10 trays of 96/pack 5 packs/case
BT200 Series – 200 µl Barrier Tip  *Actual size*	BT200	S³	R S	10 trays of 96/pack 5 packs/case
	BT200-ESP	S³	E S	10 inserts of 96/pack 4 packs/case
BT300 Series – 300 µl Barrier Tip  *Actual size*	BT300	S³	R S	10 trays of 96/pack 5 packs/case
BT1000 Series – 1000 µl Barrier Tip  *Tip image has been reduced to 85% of actual size*	BT1000	NP	R S	8 trays of 60/pack 5 packs/case
BT1250 Series – 1250 µl Extended Length Barrier Tip  *Tip image has been reduced to 72% of actual size*	BT1250	S³	R S	8 trays of 96/pack 4 packs/case
	BT1250.N	NP	R S	8 trays of 96/pack 4 packs/case

FEATURES S³ Sample Saving Surface · S Sterile · NP Natural Polypropylene

PACKAGING OPTIONS R Racked · RS Rack & Stack · E ESP Reload System *Empty rack needed (page 18)* · B 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	0.1-2.5 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	20-200 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 Tlp 	M100 M200		10-100 µl 20-200 µl	2-20 µl 10-100 µl 20-200 µl	20-200 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		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
BT200 Series – 200 µl Barrier 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
BT300 Series – 300 µl Barrier 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	10-100 µl 20-200 µl 30-300 µl	10-200 µl	50-200 µl
BT1000 Series – 1000 µl Barrier Tip 		200-1000 µl		100-1000 µl			100-1000 µl	100-1000 µl	100-1000 µl	100-1000 µl
BT1250 Series – 1250 µl Extended Length Barrier Tlp 		200-1000 µl		100-1000 µl			100-1000 µl	100-1000 µl	100-1000 µl	100-1000 µl

100-1000 µl	100-1000 µl	10-100 µl 20-200 µl 30-300 µl	10-100 µl 20-200 µl 30-300 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	0.1-2.5 µl 0.5-10 µl	0.1-2.5 µl 0.5-10 µl	Eppendorf Research™
100-1000 µl	100-1000 µl	50-200 µl	50-200 µl	50-200 µl	2-20 µl 10-100 µl	2-20 µl 10-100 µl	0.1-2.5 µl 0.5-10 µl	0.1-2.5 µl 0.5-10 µl	0.1-2.5 µl 0.5-10 µl	Eppendorf Research Plus™
100-1000 µl 200-1000 µl 100-1200 µl	100-1000 µl 200-1000 µl 100-1200 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	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	0.5-10 µl 5-50 µl	0.5-10 µl 5-50 µl	Finnpipette™
		30-300 µl	30-300 µl	30-300 µl	30-300 µl	30-300 µl	1.10 µl	1.10 µl	1.10 µl	Finnpipette Electronic™
							1.10 µl	1.10 µl	1.10 µl	Finnpipette F1™
P1000	P1000	P200	P200	P200	P20 P100 P200	P20 P100 P200	P10 P20	P10 P20	P10 P20	Gilson Pipetman™
		U200	U200	U200	U20 U200	U20 U200				Gilson Pipetman Ultra™
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	0.2-2 µl 1-10 µl	0.2-2 µl 1-10 µl	Hamilton™
100-1200 µl	100-1200 µl									Labnet BioPette E™
100-1000 µl	100-1000 µl	20-200 µl	20-200 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	0.5-10 µl	0.5-10 µl	Nichiryo Nichipet EX™
					2-20 µl	2-20 µl	0.1-2 µl	0.1-2 µl	0.1-2 µl	Nichiryo Oxford Benchmate™
		50-300 µl	50-300 µl	50-300 µl	5-50 µl 50-300 µl	5-50 µl 50-300 µl	0.5-10 µl	0.5-10 µl	0.5-10 µl	Nichiryo Oxford Multimate™
100-1000 µl	100-1000 µl	20-200 µl	20-200 µl	20-200 µl	10-100 µl 20-200 µl	10-100 µl 20-200 µl	1-10 µl	1-10 µl	1-10 µl	Socorex Calibra 822™
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	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	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	0.1-2 µl 0.5-10 µl	0.1-2 µl 0.5-10 µl	VWR Ultra High Performance™

PIPETTE TIPS

FEATURES:

- *Eco-friendly racks designed for minimum plastic consumption*
- *Easy-insertion, easy-ejection*
- *S^3 technology assures the highest recovery of your precious sample*

	Neptune PN	Tip Type	Packaging	Quantity
2040 Series – 10 µl Micro Tip	2040	S³	B	1000 tips/bag
				20 bags/case
	2042	S³	R	10 trays of 96/pack
				5 packs/case
	2042.S	S³ S	R	10 trays of 96/pack
				5 packs/case
	2047	S³	E	20 cards of 96/pack
				4 packs/case
Actual size	2047.S	S³ S	E	20 cards of 96/pack
				4 packs/case
2340 Series – 10 µl Extended Length Tip	2340	NP	B	1000 tips/bag
				20 bags/case
	2342	NP	R	10 trays of 96/pack
				5 packs/case
	2342.S	NP	R	10 trays of 96/pack
				5 packs/case
	2347.N	NP	E	10 cards of 96/pack
				10 packs/case
Actual size	2347.NS	NP S	E	10 cards of 96/pack
				10 packs/case
2140 Series – 10 µl Ultra Micro Tip	2140	S³	B	1000 tips/bag
				20 bags/case
	2142	S³	R	10 trays of 96/pack
				5 packs/case
	2142.S	S³ S	R	10 trays of 96/pack
				5 packs/case
Actual size				

FEATURES S³ Sample Saving Surface · S Sterile · NP Natural Polypropylene

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

	Neptune PN	Tip Type	Packaging	Quantity
2100 Series – 200 µl Universal Tip	2100.N	NP	B	1000 tips/bag
				10 bags/case
	2100	S³	B	1000 tips/bag
				10 bags/case
	2102.N	NP	R	10 trays of 96/pack
				5 packs/case
	2102.NS	NP S	R	10 trays of 96/pack
				5 packs/case
	2102	S³	R	10 trays of 96/pack
				5 packs/case
	2102.S	S³ S	R	10 trays of 96/pack
				5 packs/case
	2101.N	NP	RS	5 inserts of 192/pack
				5 packs/case
	2101	S³	RS	5 inserts of 192/pack
				5 packs/case
	2107.N	NP	E	10 cards of 96/pack
				10 packs/case
	2107	S³	E	10 cards of 96/pack
				10 packs/case
	2107.S	S³ S	E	10 cards of 96/pack
				10 packs/case
2100 Series – 200 µl Yellow Universal Tip	2100.YN	NP	B	1000 tips/bag
				10 bags/case
	2100.Y	S³	B	1000 tips/bag
				10 bags/case
	2102.YN	NP	R	10 trays of 96/pack
				5 packs/case
	2102.YNS	NP S	R	10 trays of 96/pack
				5 packs/case
	2102.Y	S³	R	10 trays of 96/pack
				5 packs/case
	2102.YS	S³ S	R	10 trays of 96/pack
				5 packs/case
	2107.YN	NP	E	10 cards of 96/pack
				10 packs/case
	2107.Y	S³	E	10 cards of 96/pack
				10 packs/case
	2107.YS	S³ S	E	10 cards of 96/pack
				10 packs/case

Actual size

Actual size

FEATURES S³ Sample Saving Surface · S Sterile · NP Natural Polypropylene

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

PIPETTE TIPS

	Neptune PN	Tip Type	Packaging	Quantity
2016 Series – 200 µl Extended Length Gel Tip  *Actual size*	2016	NP	R	5 racks of 204/pack
				5 packs/case
	2016.S	NP S	R	5 racks of 204/pack
				5 packs/case
2150 Series – 200 µl Extended Length Tip  *Tip image has been reduced to 78% of actual size*	2150	NP	B	1000 tips/bag
				5 packs/case
	2152	NP	R	8 racks of 204/pack
				3 packs/case
2090 Series – 300 µl Universal Tip  *Actual size*	2090.N	NP	B	1000 tips/bag
				10 bags/case
	2090	S³	B	1000 tips/bag
				10 bags/case
	2092.N	NP	R	10 trays of 96/pack
				5 packs/case
	2092.NS	NP S	R	10 trays of 96/pack
				5 packs/case
	2092	S³	R	10 trays of 96/pack
				5 packs/case
	2092.S	S³ S	R	10 trays of 96/pack
				5 packs/case
	2097.N	NP	E	10 cards of 96/pack
				10 packs/case
	2097.NS	NP S	E	10 cards of 96/pack
				10 packs/case
	2097	S³	E	10 cards of 96/pack
				10 packs/case
	2097.S	S³ S	E	10 cards of 96/pack
				10 packs/case
2110 Series – 1000 µl Traditional Shaped Tip  *Tip image has been reduced to 84% of actual size*	2110	NP	B	1000 tips/bag
				4 bags/case
	2112	NP	R	16 trays of 60/case
	2112.S	NP S	R	16 trays of 60/case
2110 Series – 1000 µl Blue Traditional Shaped Tip  *Tip image has been reduced to 84% of actual size*	2110.B	NP S	B	1000 tips/bag
				4 bags/case
	2112.B	NP	R	16 trays of 60/case
	2112.BS	NP S	R	16 trays of 60/case

FEATURES S³ Sample Saving Surface · S Sterile · NP Natural Polypropylene

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

	Neptune PN	Tip Type	Packaging	Quantity
2160 Series – 1000 µl Universal Tip	2160	NP	B	1000 tips/bag
				4 bags/case
	2162	NP	R	16 trays of 60/case
	2162.S	NP S	R	16 trays of 60/case
	2167	NP	E	16 cards of 60/pack
				4 packs/case
	2167.S	NP S	E	16 cards of 60/pack
				4 packs/case
2370 Series – 1250 µl Extended Length Tip	2370.N	NP	B	1000 tips/bag
				4 bags/case
	2372.N	NP	R	8 trays of 96/pack
				4 packs/case
	2372.NS	NP S	R	8 trays of 96/pack
				4 packs/case
	2372	S³	R	8 trays of 96/pack
				4 packs/case
	2372.S	S³ S	R	8 trays of 96/pack
				4 packs/case
	2377.N	NP	E	10 cards of 96/pack
				5 packs/case
	2377.NS	NP S	E	10 cards of 96/pack
				5 packs/case
	2377	S³	E	10 cards of 96/pack
				5 packs/case
	2377.S	S³ S	E	10 cards of 96/pack
				5 packs/case
2250 Series – 5000 µl Tip	2250	NP	B	250 tips/bag
				10 bags/case
	2252.S	NP S	R	10 trays of 50/case

Tip image is 85% of actual size

Tip image is 72% of actual size

Tip image is 58% of actual size

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 TIP COMPATIBILITY CHART

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

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	20-200 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	20-200 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	20-200 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 – 1250 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 										

	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	0.1-2.5 µl 0.5-10 µl	0.1-2.5 µl 0.5-10 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	0.1-2.5 µl 0.5-10 µl	0.1-2.5 µl 0.5-10 µl	0.1-2.5 µl 0.5-10 µl	Eppendorf Research Plus™
	100-1000 µl 200-1000 µl 100-1200 µl	100-1000 µl 200-1000 µl 100-1200 µl	100-1000 µl 200-1000 µl 100-1200 µl	5-50 µl 20-200 µl 30-300 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	0.5-10 µl 5-50 µl	0.5-10 µl 5-50 µl	Finnpipette™
				30-300 µl	30-300 µl	30-300 µl	30-300 µl	1.10 µl	1.10 µl	1.10 µl	Finnpipette Electronic™
								1.10 µl	1.10 µl	1.10 µl	Finnpipette F1™
P5000	P1000	P1000	P1000	P200	P100 P200	P20 P100 P200	P20 P100 P200	P10 P20	P10 P20	P10 P20	Gilson Pipetman™
U5000				U200	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	0.2-2 µl 1-10 µl	0.2-2 µl 1-10 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	0.5-10 µl	0.5-10 µl	0.5-10 µl	Nichiryo Nichipet EX™
						2-20 µl	2-20 µl	0.1-2 µl	0.1-2 µl	0.1-2 µl	Nichiryo Oxford Benchmate™
				50-300 µl			5-50 µl 50-300 µl	0.5-10 µl	0.5-10 µl	0.5-10 µl	Nichiryo 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	1-10 µl	1-10 µl	1-10 µl	Socorex Calibra 822™
	100-1000 µl	100-1000 µl	100-1000 µl	2-20 µl 20-200 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	0.1-2 µl 0.5-10 µl	0.1-2 µl 0.5-10 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 1250 µl 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	Rack Size	Packaging	Quantity
2042.T	10 µl	Tray with insert card for bulk tips	1 tray
			50 trays/case
2047.T	10 µl	Tray without insert card for ESP reload	1 tray
			48 trays/case
2342.T	10XL	Tray with insert card for bulk tips	1 tray
			50 trays/case
2347.T	10XL	Tray without insert card for ESP reload	1 tray
			50 trays/case
2102.T	200 µl	Tray with insert card for bulk tips	1 tray
			50 trays/case
2107.T	200 µl	Tray without insert card for ESP reload	1 tray
			48 trays/case
2092.T	300 µl	Tray with insert card for bulk tips	1 tray
			50 trays/case
2097.T	300 µl	Tray without insert card for ESP reload	1 tray
			50 trays/case
2162.T	1000 µl	Tray with insert card for bulk tips & ESP reload	1 tray
			30 trays/case
2372.T	1250 µl	Tray with insert card for bulk tips	1 tray
			32 trays/case
2377.T	1250 µl	Tray without insert card for ESP reload	1 tray
			32 trays/case

TRAY COMPATIBILITY CHART

NEPTUNE
Tools for Life Sciences

	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 – 1250 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

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

$RCF = 0.00001118 \times radius \times RPM^2$

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

TUBES OVERVIEW

0.6 ml Microcentrifuge Tubes
page 23

1.6 ml Microcentrifuge Tubes
page 23

2.0 ml Microcentrifuge Tubes
page 23

0.2 ml PCR Tubes
pages 29

Cryovials & Cryotubes
page 25

15 & 50 ml Centrifuge Tubes
pages 26-27

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.

NEPTUNE Certified Free
DNASE
RNASE
ENDOTOXIN
DNA

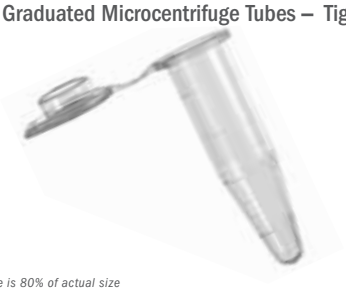
0.6, 1.6, and 2.0 ml Microcentrifuge Tubes

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.

Assorted Colors

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	Tube Type	Packaging	Quantity/tubes
0.6 ml Graduated Microcentrifuge Tubes  *Actual size*	3735.X	NP	B	1000 tubes/pack 10 packs/case
	3735.A.X	NP AC	B	1000 tubes/pack 10 bags/case
	3735.S.X	NP S	B	500 tubes/pack 10 bags/case
	3735.AS.X	NP S AC	B	500 tubes/pack 10 packs/case
1.6 ml Graduated Microcentrifuge Tubes – Easy Seal Series  *Tube image is 80% of actual size*	4445.X	NP	B	500 tubes/pack 10 packs/case
	4445.A.X	NP AC	B	10 bags of 50 tubes/pk 10 packs/case
	4445.S.X	NP S	B	10 bags of 50 tubes/pk 10 bags/case
	4445.AS.X	NP S AC	B	10 bags of 50 tubes/pk 10 bags/case
1.6 ml Graduated Microcentrifuge Tubes – Tight Seal Series  *Tube image is 80% of actual size*	3745.X	NP	B	500 tubes/pack 10 packs/case
	3745.A.X	NP AC	B	500 tubes/pack 10 packs/case
	3745.S.X	NP S	B	250 tips/pack 10 packs/case
	3745.AS.X	NP S AC	B	250 tubes/pack 10 packs/case
2.0 ml Graduated Microcentrifuge Tubes  *Actual size*	3765.X	NP	B	500 tubes/pack 10 bags/case
	3765.A.X	NP AC	B	500 tubes/pack 10 bags/case
	3765.S.X	NP S	B	250 tubes/pack 10 packs/case

FEATURES S Sterile NP Natural Polypropylene AC * AC ** Assorted Colors **PACKAGING** B Bulk

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

**Blue, Green, Yellow, Red, Lavender

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	Tube Type	Packaging	Quantity
2600.X	NS	B T	960 tubes/bag 5 bags/case
2600.8.X	NS	B T	120 strips/bag 5 bags/case
2601.X	NS	R T	10 trays of 96/pack 5 packs/case
2601.S.X	S	R T	10 trays of 96/pack 5 packs/case
2601.8.X	NS	R T	10 trays of 96/pack 5 packs/case
2601.8S.X	S	R T	10 trays of 96/pack 5 packs/case
2602.8.X	NS	B C	120 strip caps/pack 5 packs/case
2602.8S.X	S	B C	120 strip caps/pack 5 packs/case

FEATURES S Sterile NS Non-Sterile **PACKAGING** 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	Tube Type	Packaging	Quantity
0.5 ml 	3733.S.X	S	B TC	250 tubes/bag 10 bags/case
1.5 ml 	3743.S.X	S	B TC	250 tubes/bag 10 bags/case
2.0 ml 	3763.S.X	S	B TC	250 tubes/bag 10 bags/case
0.5 ml 	3734.S.X	S	B TC	250 tubes/bag 10 bags/case
1.5 ml 	3744.S.X	S	B TC	250 tubes/bag 10 bags/case
2.0 ml 	3764.S.X	S	B TC	250 tubes/bag 10 bags/case

FEATURES S Pre-Sterile **PACKAGING** B Bulk TC Tubes & Caps

CRYOTUBES & CRYOVIALS

NEPTUNE
Tools for Life Sciences

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°C. Dimensions: 0.51 x 1.85 in. (13 x 47 mm)

	Neptune PN	Tube Type	Packaging	Quantity
2.0 ml 	3102.X	S	B TC	100 tubes/bag 10 bags/case
3.0 ml 	3103.X	S	B TC	100 tubes/bag 10 bags/case
4.0 ml 	3104.X	S	B TC	100 tubes/bag 10 bags/case
 *Cap Inserts Assorted Colors*	3120.A.X	AC	B TC	500 inserts/case

FEATURES S Sterile AC Assorted Colors **PACKAGING** 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	Tube Type	Packaging	Quantity/tubes
0.5 ml 	3470.X	S	B TC	10 bags of 50/case
1.5 ml 	3471.X	S	B TC	10 bags of 50/case
1.8 ml 	3472.X	S	B TC	10 bags of 50/case
 *Cap Inserts Assorted Colors*	3121.A.X	AC	B TC	500 inserts/case

FEATURES S Sterile AC Assorted Colors **PACKAGING** B Bulk

15 and 50 ml Centrifuge Tubes

15 and 50 ml Centrifuge Tubes

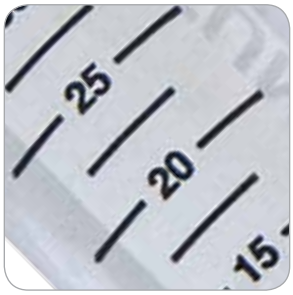
15 and 50 ml Centrifuge Tubes are manufactured from recyclable virgin polypropylene and are designed to handle the rigors of everyday lab work. All tubes feature easy to read graduation marks and large frosted writing areas on the cap and side. Our design includes a leak resistant cap with wider knurls 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 ¾ 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	Tube Type	Packaging	Quantity/tubes
15 ml Centrifuge Tubes with Flat Top Rim Seal Caps 	2571.X	S	R	1 rack of 50
				10 racks of 50
	2570.X	S	B	1 bag of 50
				10 bags of 50
50 ml Centrifuge Tubes with Flat Top Rim Seal Caps 	2576.X	S	R	1 rack of 25
				20 racks of 25
	2575.X	S	B	1 bag of 50
				10 bags of 50

FEATURES S Sterile NP Natural Polypropylene

PACKAGING OPTIONS 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	Tube Type	Packaging	Quantity
0.2 ml PCR Tubes with Flat Cap 	3423.X	CL	B T	1000 tubes/pack
				10 packs/case
	3423.A.X	AC	B T	10 bags of 100/pack
				10 packs/case
	3423.S.X	CL S	B T	10 bags of 100/pack
				10 packs/case
	3423.AS.X	AC S	B T	10 bags of 100/pack
				10 packs/case
0.2 ml PCR Tubes with Domed Cap 	3425.X	CL	B C	1000 tubes/pack
				10 packs/case
	3425.A.X	AC	B C	10 bags of 100/pack
				10 packs/case
	3425.S.X	CL S	B C	10 bags of 100/pack
				10 packs/case
	3425.AS.X	AC S	B C	10 bags of 100/pack
				10 packs/case
0.6 ml PCR Tubes with Flat Cap 	3737.X	CL	B TC	1000 tubes/pack
				10 packs/case
	3737.A.X	CL	B T	1000 tubes/pack
				10 packs/case
	3737.S.X	AC S	B T	1000 tubes/pack
				10 packs/case
	3737.AS.X	CL S	B T	1000 tubes/pack
				10 packs/case
0.2 ml PCR Tubes with attached Domed Cap 	3428.8.X	CL	B T	10 bags of 12/pack
				10 packs/case
	3428.8A.X	AC	B C	10 bags of 12/pack
				10 packs/case
	3728.8S.X	CL S	B C	10 bags of 12/pack
				10 packs/case
	3728.8AS.X	AC S	B C	10 bags of 12/pack
				10 packs/case

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*

	Neptune PN	Tube Type	Packaging	Quantity/strips
0.2 ml PCR 8-Strip Tubes with Separate Strip Caps 	3426.8.X	CL	B T	5 bags of 25/pack
				10 packs/case
	3426.8A.X	AC	B T	5 bags of 25/pack
				10 packs/case
	3426.8S.X	CL S	B T	5 bags of 25/pack
				10 packs/case
	3426.8AS.X	AC S	B T	5 bags of 25/pack
				10 packs/case
	3427.8.X	CL	B C	125 strip caps/pack**
				10 packs/case
	3427.8A.X	AC	B C	125 strip caps/pack**
				10 packs/case
	3427.8S.X	CL S	B C	125 strip caps/pack**
				10 packs/case
	3427.8AS.X	AC S	B C	125 strip caps/pack**
				10 packs/case
	3459.8.X	CL	B TC	5 bags of 25/pack
				10 packs/case
0.2 ml PCR 12-Strip Tubes with Separate Strip Caps 	3426.12.X	CL	B T	80 strip tubes/pack
				10 packs/case
	3426.12A.X	AC S	B T	80 strip tubes/pack
				10 packs/case
	3726.12S.X	CL S	B T	80 strip tubes/pack
				10 packs/case
	3726.12AS.X	AC S	B T	80 strip tubes/pack
				10 packs/case
	3427.12.X	CL	B C	80 strip caps/pack
				10 packs/case
	3427.12A.X	AC	B C	80 strip tubes/pack
				10 packs/case
	3727.12S.X	S	B C	80 strip caps/pack
				10 packs/case
	3727.12AS.X	AC S	B C	80 strip tubes/pack
				10 packs/case

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

Cell Culture and Storage 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 cell culture storage 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 storage 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.

PLATES FOR CELL CULTURE 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	Plate Type	Packaging	Quantity
Minititer Plate 	2406.X	Non-Sterile	B	50 plates/case
Megatiter Plate 	2405.X	Non-Sterile	B	24 plates/case
	2405.S.X	S	B	24 plates/case

FEATURES S Sterile **PACKAGING** 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)

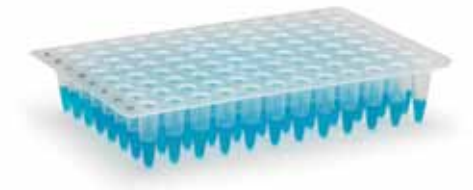
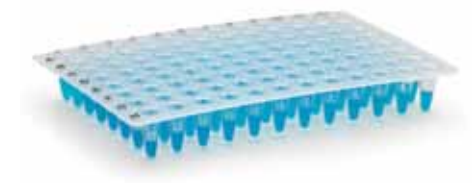
FEATURES:

- *Easy-tear sterile packaging*
- *Durable body construction*

	Neptune PN	Basin Type	Packaging	Quantity
Labcor Solution Basins 	55 ml Solution Basins			
	730-001	PVC	B	100 basins/case
	730-004	S P	1/bag	80 basins/case
	730-006	S P	5/bag	160 basins/case
	730-021	APET	B	20 lids/case
	100 ml Solution Basins			
	730-011	S	B	100 basins/case
	730-014	S P	1/bag	80 basins/case
	730-016	S P	5/bag	160 basins/case

FEATURES S Sterile P Polystyrene **PACKAGING** B Bulk

PCR PLATES

	Neptune PN	Packaging	Quantity
Full Profile Plate 	3730.X	B	10 plates/pack 10 packs/case
Low Profile Plate 	3438.X	B	20 plates/pack 5 packs/case
8 Strip Caps for PCR plates 	3731.X	B	125 strips/pack 10 packs/case

PACKAGING B Bulk

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

	Neptune PN	Packaging	Quantity
Fully Skirted Plate 	3732.X	B	10 plates/pack 10 packs/case
Semi Skirted Plate 	3742.X	B	10 plates/pack 10 packs/case
8 Strip Caps for PCR plates 	3731.X	B	125 strips/pack 10 packs/case

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	Packaging	Quantity
	2412.X	B	100/case

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	Packaging	Quantity
	2410.X	B	100/case

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	Packaging	Quantity
	2409.X	B	100/case

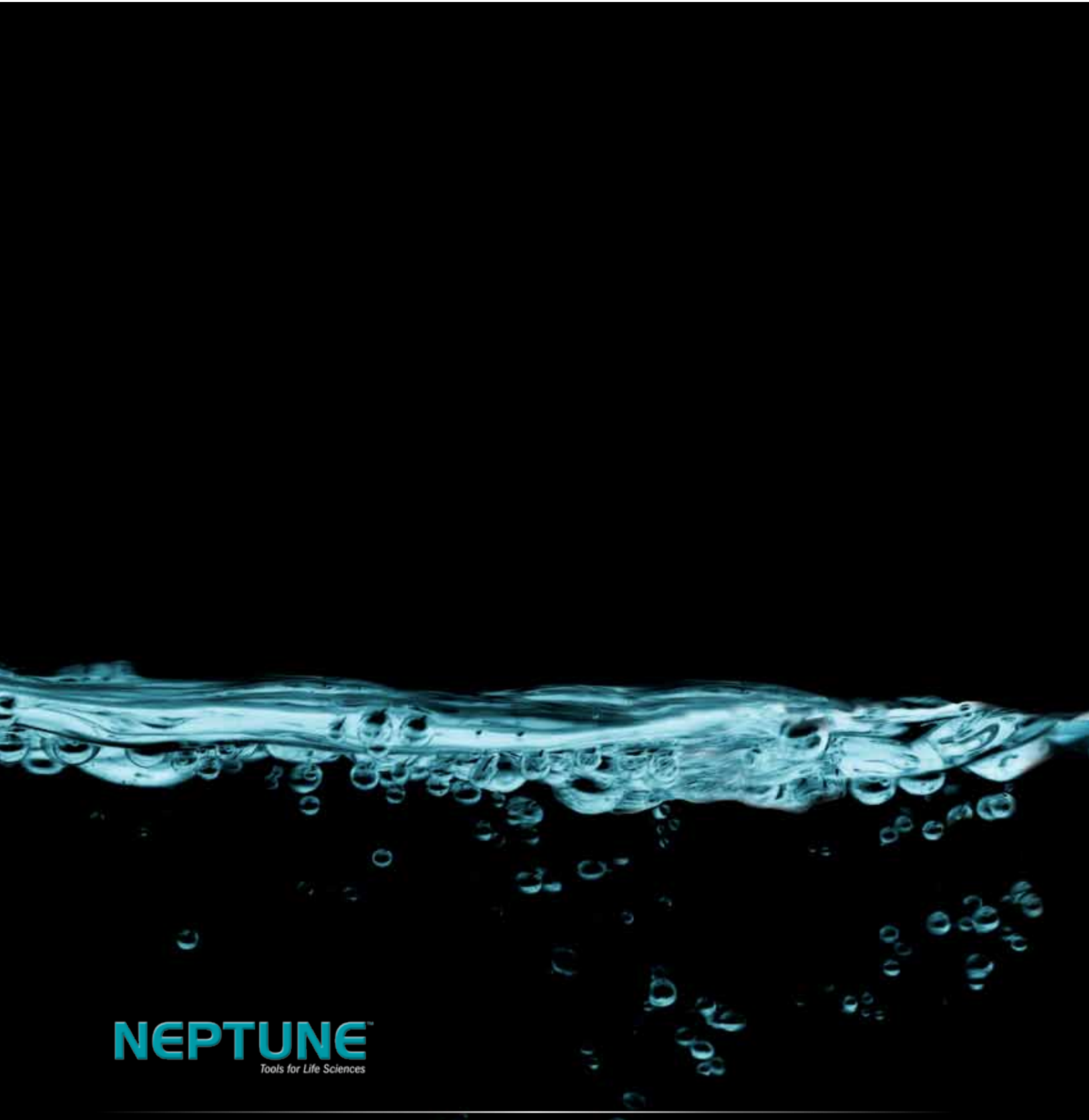
PCR PLATE COMPATIBILITY CHART

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 Cycler 96		●		●
	Palm Cycler 384				
	RotorGene				
Eppendorf					
Thermal Cyclers	Mastercylcer	●	●		●
	Mastercycler Gradient	●		●	
	Mastercycler ep	●	●		●
	Mastercycler M384				
"Real Time" Thermal Cyclers	Mastercycler ep Realplex				●
Ericom					
"Real Time" Thermal Cyclers	Power Block I	●	●	●	
	Deltacycler I	●	●		
	Deltacylcer 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	●	●	●	●
Techne					
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 Satelite System	●	●	●	●
	Px2	●	●	●	●
	PxE	●	●	●	●
	PCR Express	●	●	●	●
	Omni-E	●	●	●	●
	Touchdown	●	●	●	●
	Omnigene	●	●	●	●
Transgenomic					
Sequencers	WAVE System				●

INDEX

Notes



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Tools for Life Sciences

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