Accelerate productivity with unequalled durability

Thermo Scientific Fiberlite Carbon Fiber Rotors
Thermo Scientific Fiberlite rotors maximize centrifuge performance with versatility, speed and a robust, corrosion-free design

Improved ergonomics and productivity
Lightweight design

Large metal centrifuge rotors often present a unique lifting hazard in the laboratory due to their weight and awkward shape. Lightweight Fiberlite rotors—up to 60% less weight than metallic rotors—facilitate a safer work environment and minimize risk of damage to centrifugation equipment as a result of these ergonomic improvements.

Additionally, these lightweight properties result in faster acceleration/deceleration rates for shorter run times.

Unequalled durability and cleaning convenience
Corrosion and fatigue resistance

Traditionally, the primary cause of rotor failure is from damage to metal surfaces due to moisture, chemicals or alkaline solutions that weaken the metal rotor’s structural integrity. Carbon fiber composite rotors are corrosion-resistant, eliminating this ever-present hazard, and are safe to use with most mild laboratory detergents and solutions, providing easy rotor care and maintenance.

Substantial load or stress, as a result of high rotational speeds and repeat cycles, can also threaten metal rotor structure by causing it to stretch and change in size, limiting rotor life or leading to failure. Thermo Scientific Fiberlite™ rotors are fatigue-resistant, mitigating this threat.

Weight

<table>
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<th>Rotor type</th>
<th>Weight (kg)</th>
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<tr>
<td>Fiberlite carbon fiber rotor</td>
<td>8/17 lbs</td>
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<tr>
<td>Aluminum rotor</td>
<td>14/30 lbs</td>
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43% savings (6 kg/13 lbs)

Rotor weight

Figure 1. Weight savings with carbon fiber rotors.

Speed

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<th>Rotor type</th>
<th>Accel/decel rates</th>
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<tr>
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Figure 2. Time savings with carbon fiber rotors.

1 Based on a comparison with manufacturers’ published specifications.
**Exceptional value within your reach**

15-year warranty\(^2\) in all centrifuges

Unlike the limited lifetime of metal rotors due to potential failure risks, Fiberlite carbon fiber rotors are backed by a warranty\(^2\) up to two times longer than other rotors\(^3\).

**Unique repairability**

In contrast to traditional metal rotors, Fiberlite carbon fiber rotors are repairable if damaged.

**Superior insulation**

Carbon fiber material possesses naturally insulating properties, which helps to maintain sample temperature integrity.

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**Warranty**

Average warranty periods for metal rotors compared with Fiberlite carbon fiber rotors\(^2\)

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*Figure 3. Warranty with carbon fiber rotors.*

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2 Subject to Thermo Fisher Scientific’s standard limited warranty. See thermofisher.com or your sales representative for details.

3 Warranty coverage may vary by rotor. Please refer to manufacturer for specific warranty coverage for each rotor.

4 Average warranty periods were calculated based on industry average of years an aluminum or titanium rotor may be covered under warranty per manufacturers’ published specifications.
Seamless integration

From benchtop instruments to advanced floor models, Thermo Scientific centrifuge systems are designed to deliver outstanding performance and reliability in the lab. We provide an integrated solution of rotors, equipment, and accessories, offering exceptional value and best-in-class features including:

- innovation and technical design
- high capacity and speed
- operator, sample and system safety
- operational longevity of your system

Sample containment

- In the event of a tube or bottle failure, a volume of fluid can be contained inside the rotor in a liquid containment annulus, preventing biohazardous samples from escaping; available on select rotors.

- To enhance containment of biohazardous samples, rotors certified by Public Health England, Porton Down, UK are noted by 🟢.

- Lids for rotors featuring Thermo Scientific™ Auto-Lock™ rotor exchange enable rotors to remain sealed while being carried to a biocontainment hood for sample retrieval; available on select rotors.
Fiberlite LEX rotor series

The next generation of high capacity Fiberlite rotors, the Fiberlite LEX rotor series, further advances the current carbon fiber design, combining even lower mass with low kinetic energy to deliver superior ergonomics with outstanding performance and safety.

Fiberlite LEX rotors are the top choice for a safe work environment.

From sample protection with advanced sealing properties, to leveraging the rotor’s lifting handle, Fiberlite LEX rotors provide multiple levels of protection to enhance biosafety without compromising functionality or convenience.

Enhanced safety

From sample protection with advanced sealing properties, to leveraging the rotor’s lifting handle, Fiberlite LEX rotors are the top choice for a safe work environment.

In today’s biomedical and microbiological laboratories, containment of biological agents and infectious substances are an essential element in maintaining a safe environment. Fiberlite LEX rotors provide multiple levels of protection to enhance biosafety without compromising functionality or convenience.

1. **Biocontainment tested**: Rotors certified by Public Health England, Porton Down, UK are noted by 📂.

2. **Liquid containment annulus**: In the event of a bottle failure, a volume of fluid is contained inside the rotor, preventing biohazardous samples from escaping.

3. **Auto-Lock rotor exchange with Thermo Scientific™ Auto-ID™ rotor identification**: Simplifies run set-up and mitigates the worry of overspeeding or rotor accidents.

Lower kinetic energy resulting from the lightweight design, enhances equipment performance and safety of work environment.

Ergonomic design

Fiberlite LEX rotors take the lightweight design of carbon fiber to a whole new level; these rotors are the lightest of their kind¹, further improving ergonomics and ease of handling.

Exceptional performance

The Fiberlite LEX rotor series provides outstanding RCF performance for enhanced productivity—up to 24,471 xg with the 6 x 500 mL (3-Liter volume) Fiberlite LEX rotor and up to 17,568 xg with the 6 x 1000 mL (6-Liter volume) Fiberlite LEX rotor.

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1. Based on a comparison with manufacturers’ published specifications.
Superspeed rotors

With volumes ranging from 1.5 mL to 6 Liters, a full range of Fiberlite carbon fiber rotors is available for superspeed floor model centrifuges, facilitating applications spanning pharmaceutical, biotechnology and academic research.

High capacity and seamless compatibility

<table>
<thead>
<tr>
<th>Fiberlite</th>
<th>F9-6x1000 LEX</th>
<th>F10-4x1000 LEX</th>
<th>F12-6x500 LEX</th>
<th>F14-6x250y</th>
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</table>

- Simplify preparation by loading tubes directly into Fiberlite rotors, eliminating multi-piece canister assemblies, which can be misplaced or damaged.
- Work seamlessly with Thermo Scientific™ bottles, including the 1000 mL Fiberlite high performance wide-mouth polypropylene and polycarbonate centrifuge bottles that process one full liter at maximum speeds (20,584 xg) with leakproof assembly.

Enhanced ergonomics

- Lightweight design allows easy rotor transport in and out of the centrifuge.
- Installation or exchange of rotors requires less force—especially with lifting handle on select models—reducing risk of injury.

Conical tube efficiency

<table>
<thead>
<tr>
<th>Fiberlite</th>
<th>F14-14x50cy</th>
<th>F15-8x50cy</th>
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</table>

- Spin 14 x 50 mL conical tubes at maximum rotor speed (33,700 xg) without tube damage.
- Process 15 mL conicals with available adapters for flexibility.

Small-volume protocol support

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<tr>
<th>Fiberlite</th>
<th>F20-12x50 LEX</th>
<th>F21-8x50y</th>
<th>F23-48x1.5</th>
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</thead>
</table>

- Small-volume pelleting and microtubes ranging from 1.5 to 50 mL at RCFs up to 57,300 xg.

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6 Actual maximum rotor speed may vary depending on centrifuge.
7 Actual fill volumes may vary from nominal volume.
Fiberlite rotors for the Thermo Scientific™ Sorvall™ LYNX Superspeed Centrifuge series

Rotor innovations shorten run set-up time while providing peace-of-mind that the rotor is secure.

Figure 7. Auto-Lock rotor exchange. Secure, trouble-free rotor installation and removal in as little as 3 seconds.

Figure 8. Auto-ID instant rotor identification. Improves safety, saves times, and protects the integrity of your samples.

Figure 9. Speed handle on rotor lids. Makes tightening the lid safer while also simplifying lid removal.

Auto-Lock rotor exchange

Secure, push-button rotor exchange in as little as 3 seconds delivers:

- Improved safety and confidence that the rotor is automatically and securely locked and will not loosen during a run.
- Trouble-free rotor installation and removal.
  - No tools are required.
  - The rotor locks itself to the centrifuge, eliminating the need for hand-tightening.
- Flexibility to quickly change rotors and applications, matching the needs of your laboratory—today and in the future.

Auto-ID instant rotor identification

Immediate identification of a rotor when secured in the centrifuge chamber, with rotor specifications automatically loaded into the centrifuge parameters.

- Shortens run set-up time by eliminating the need to find and set rotor codes.
- Eliminates over-speed risk, reduces error messages, and improves centrifuge, sample and operator safety.

Speed handle on rotor lids

- Accelerates and simplifies rotor lid tightening, ensuring lid is properly attached.
- Easier and safer lifting and carrying of rotors, further enhanced with the lightweight design.

innovative rotor convenience
Conical tubes

Complete workflow in disposable conical tubes
Fiberlite  F13-14x50cy
F15-8x50cy

• Run samples in inexpensive, disposable conical tubes, reducing the chance for cross-contamination and eliminating many non-productive tasks such as sample transfers and autoclaving.

• Reduce processing times by spinning at maximum speeds up to 33,700 xg\(^8\) without risk of tube damage.

• Clarify crude lysates for plasmid DNA preps from Qiagen™ Maxi and Midi Prep protocols.

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Figure 10. Through exclusive technology, Fiberlite rotor cavities are molded to the exact shape of many disposable conical tubes for maximum support; 50 mL conical tube shown here. In addition, a cap support is designed to relieve high g-forces.

Figure 11. Support preparative centrifugation in a single conical tube for time and cost efficiencies and waste reduction.

8 Maximum g-force specification may vary depending on centrifuge and tube manufacturer.
Ultraspeed rotors

From proteomics and cell clarification to nucleic acid preparation, the advanced design and manufacturing of Fiberlite ultraspeed rotors deliver high performance, eliminating corrosion and the need for derating or reducing speed over the rotor lifespan.

Large volume processing
Fiberlite | F37L-8x100

- Realize 33% more capacity with two additional tube cavities for high volume separations.
- Achieve forces of up to 182,460 xg for time savings on separations of subcellular organelles or concentration of viruses.
- Collect or purify small macro molecular species including enzymes, antibodies and proteins from standard culture flasks up to 500 mL in a single run.

Remarkable sample throughput of microtubes
Fiberlite | F50L-24x1.5

- Provide full tube support at RCF of 280,000 xg for sharp and efficient pelleting of microparticles in high performance microtubes.
- Run partial filled tubes, as low as 0.2 mL, at maximum speed for extended times without excessive tube crazing or sample loss.
- Experience multifunctional use for preparative analysis with ultracentrifuge systems.

1 Based on a comparison with manufacturers’ published specifications.

Figure 12. Fiberlite ultraspeed rotors (counterclockwise from top right): F37L-8x100 (37,000 rpm; 182,460 xg); F50L-8x39 (50,000 rpm; 266,280 xg); F50L-24x1.5 (50,000 rpm; 280,000 xg); F65L-6x13.5 (65,000 rpm; 324,140 xg).
Benchtop rotors

Choose a Fiberlite benchtop rotor solution for high speed applications including PCR post-reaction cleanup, cell culture, DNA sample preparation, subcellular fractionation and protein identification.

**Accelerated application flexibility**

Fiberlite  F14-6x250LE  F10-6x100 LEX  F15-6x100y

- Achieve outstanding g-force without compromising capacity—250 mL up to 18,533 xg; 100 mL up to 24,652 xg—allowing more applications to be done on the benchtop.
- 6x100 options include both steeper angle for more precise small-volume pelletization or higher speeds for more difficult separations. the benchtop.

**Conical tube efficiency**

Fiberlite  F13-14x50cy  F15-8x50cy

- Provide generous 14- or 8-place 50 mL conical tube capacity, and g-forces up to 24,446 xg for sample preparation without the need to change tubes.
- Process 15 mL conical tubes with optional adapters for flexibility.

**Micro-volume protocol support**

Fiberlite  F21-48x2

- Run up to 48 tubes at over 25,000 xg, doubling the capacity of conventional rotors and reducing processing by half.
- Provide user convenience with non-corroding, dual-row configuration.

**Outstanding microplate processing**

Fiberlite  H3-LV

- Experience exceptional capacity of 28 standard plates or 8 deep-well plates per run with g-forces up to 2,738 xg.
- Ideal for pelleting cells and cellular debris, protein precipitation and collecting physiological fluids for diagnostic testing.

Figure 13. Easy and secure push-button Auto-Lock rotor exchange in as little as 3 seconds for application versatility and cleaning convenience.
## Specifications/Ordering information

<table>
<thead>
<tr>
<th>Rotors</th>
<th>C</th>
<th>SC</th>
<th>Cat. no.</th>
<th>Related centrifuge</th>
<th>Max speed (rpm)</th>
<th>Max RCF (xg)</th>
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C = Conical tubes  SC = Sample containment  
Biocontainment certification by Public Health England, Porton Down, UK.
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<th>Rotors</th>
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<td>Sorvall Legend T, Heraeus Multifuge 3 series</td>
<td>9,250</td>
<td>14,636</td>
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<td>10,000&lt;sup&gt;9&lt;/sup&gt;</td>
<td>17,105&lt;sup&gt;9&lt;/sup&gt;</td>
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<td>Fiberlite F15-8x50cy</td>
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<td>75003663</td>
<td>Sorvall Legend XT, Heraeus Multifuge X3, SL 40F series</td>
<td>14,500</td>
<td>24,446</td>
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<td>Sorvall Legend X1, Heraeus Multifuge X1 series</td>
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<td>22,789</td>
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<td>14,500&lt;sup&gt;9&lt;/sup&gt;</td>
<td>24,446&lt;sup&gt;9&lt;/sup&gt;</td>
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<td>Sorvall Legend T, Heraeus Multifuge 3 series</td>
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<td>24,446&lt;sup&gt;9&lt;/sup&gt;</td>
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<td>Fiberlite F21-48x2</td>
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<td>75003664</td>
<td>Sorvall Legend X1/XT, Sorvall ST 16/40, Heraeus Multifuge X1/X3, SL 40F series</td>
<td>15,200</td>
<td>25,055</td>
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<td>Sorvall ST 16/40, Heraeus Megafuge™ 16/40, SL 16/40, SL 40F series</td>
<td>15,000</td>
<td>24,400</td>
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<td>75006527</td>
<td>Sorvall Legend T, Heraeus Multifuge 3 series</td>
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<td>24,400</td>
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<td>Fiberlite H3-LV</td>
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<td>75003665</td>
<td>Sorvall Legend X1/XT, Sorvall ST 16/40, Heraeus Multifuge X1/X3, Heraeus Megafuge™ 16/40, SL 16/40, SL 40F series</td>
<td>3,600</td>
<td>2,738</td>
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</tbody>
</table>


Biocontainment certification pending testing completion September 2018
Perfect fit

Select Fiberlite rotors come complete with an initial set of bottles and tubes

<table>
<thead>
<tr>
<th>Thermo Scientific bottles and tubes</th>
<th>Nominal capacity(^{\text{per cavity}})</th>
<th>Description</th>
<th>Cat. no.</th>
<th>Fiberlite rotor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000 mL (1 L)</td>
<td>Fiberlite High Performance Bottle, PPCO, with Nylon cap and PP GF plug</td>
<td>010-1491</td>
<td>F9-6x1000 LEX (17,568 xg)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>F10-4x1000 LEX (20,584 xg)</td>
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</tr>
<tr>
<td>500 mL</td>
<td>Fiberlite High Performance Bottle, PPCO, with PP GF cap and plug</td>
<td>010-1493</td>
<td>F12-6x500 LEX (24,471 xg)</td>
<td></td>
</tr>
<tr>
<td>250 mL</td>
<td>Fiberlite High Performance Bottle, PPCO, with PP GF cap and plug</td>
<td>010-1495</td>
<td>F14-6x250y (30,240 xg)</td>
<td></td>
</tr>
<tr>
<td>50 mL</td>
<td>Nalgene Oak Ridge Tube, PPCO, with Polypropylene sealing cap</td>
<td>3139-0050</td>
<td>F21-8x50y (47,850 xg)</td>
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<tr>
<td></td>
<td>F20-12x50 LEX (51,428 xg)</td>
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</tr>
</tbody>
</table>

PPCO = Polypropylene copolymer  PP GF = Polypropylene glass filled

7 Actual fill volumes may vary from nominal volume.

Optimize the performance of your centrifuge

It’s simple. From 1 L bottles, to 15 and 50 mL conical tubes, to microplates and tissue culture flasks, the versatile selection of Thermo Scientific centrifugation labware works seamlessly with your complete centrifuge and rotor system, bringing together quality and performance.
# Thermo Scientific Fiberlite rotor adapters and accessories

<table>
<thead>
<tr>
<th>Fiberlite rotor (Cat. No.)</th>
<th>Adapter description</th>
<th>No. of vessels per adapter</th>
<th>Cat. No.</th>
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</thead>
<tbody>
<tr>
<td><strong>30 mL Ultraspeed</strong></td>
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<tr>
<td>F50L-8x39 (096-087051)</td>
<td>13.5 mL Tube</td>
<td>1</td>
<td>010-1142</td>
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<tr>
<td>30 mL</td>
<td></td>
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<tr>
<td>30 mL Oak Ridge Tube</td>
<td>1</td>
<td>010-0167</td>
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<tr>
<td>16 mL Oak Ridge Tube</td>
<td>1</td>
<td>010-0392</td>
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</tr>
<tr>
<td>15 mL Conical Tube</td>
<td>1</td>
<td>010-1123</td>
<td></td>
</tr>
<tr>
<td>10 mL Oak Ridge Tube</td>
<td>1</td>
<td>010-1306</td>
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<tr>
<td>10 mL BD Vacutainer® Tube</td>
<td>1</td>
<td>010-1068</td>
<td></td>
</tr>
<tr>
<td>3 mL BD Vacutainer® Tube</td>
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<td>010-1128</td>
<td></td>
</tr>
<tr>
<td>1 mL BD Microtainer® Tube</td>
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<td>010-1127</td>
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<tr>
<td><strong>50 mL Conical</strong></td>
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<td></td>
<td></td>
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<tr>
<td>F50L-8x39 (096-087051)</td>
<td>13.5 mL Tube</td>
<td>1</td>
<td>010-0277</td>
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<td>16 mL Oak Ridge Tube</td>
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<td>15 mL Conical Tube</td>
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<td>010-1140</td>
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<tr>
<td>10 mL Oak Ridge Tube</td>
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<tr>
<td>10 mL BD Vacutainer® Tube</td>
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<td>010-1124</td>
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<tr>
<td><strong>100 mL</strong></td>
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<tr>
<td>F14-14x50cy (096-145075)</td>
<td>13.5 mL Tube</td>
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<td>010-0189</td>
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<tr>
<td>10 mL Oak Ridge Tube</td>
<td>1</td>
<td>010-0191</td>
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<tr>
<td>10 mL BD Vacutainer® Tube</td>
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<td>5 mL BD Vacutainer® Tube</td>
<td>5</td>
<td>010-0193</td>
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<tr>
<td>1 mL BD Microtainer® Tube</td>
<td>1</td>
<td>010-0194</td>
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<tr>
<td><strong>100 mL Ultra speed</strong></td>
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<tr>
<td>F37L-8x100 (096-08056)</td>
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<tr>
<td>13.5 mL Tube</td>
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<tr>
<td><strong>250 mL</strong></td>
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<tr>
<td>F14-6x250y (096-062075)</td>
<td>13.5 mL Tube</td>
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<tr>
<td>50 mL Conical Tube</td>
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<td>010-0136</td>
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<tr>
<td>30 mL Oak Ridge Tube</td>
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<tr>
<td>16 mL Oak Ridge Tube</td>
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<tr>
<td>15 mL Conical Tube</td>
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<td>010-1074</td>
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<tr>
<td><strong>500 mL</strong></td>
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<tr>
<td>F12-6x500 LEX (096-062375)</td>
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<td>10 mL Oak Ridge Tube</td>
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<td>10 mL BD Vacutainer® Tube</td>
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<td>3 mL BD Vacutainer® Tube</td>
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<tr>
<td><strong>1000 mL</strong></td>
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<td>F9-6x1000 LEX (096-061075)</td>
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<td>4 mL BD Vacutainer® Tube</td>
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<td>2 mL Filtration Tube and 1.5 mL Conical Tube</td>
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<td><strong>H3-LV Rotor</strong></td>
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<td>Standard Microplates (28 per run)</td>
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<td>2 mL Deep-well Microplates (8 per run)</td>
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<td>018-029031</td>
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</tbody>
</table>

Adapters sold in sets of 2, unless otherwise indicated. 7 Actual fill volumes may vary from nominal volume. 10 Sold in pack of one.
Centrifuge rotor maintenance is critical to the protection of your samples. With more than 100 years of experience and leadership in centrifugation, our Thermo Scientific Rotor Safety Program, featuring on-site rotor inspection and safety clinics, protects the longevity of your investment and the safety of your workplace by preventing premature rotor failure.

Thermo Scientific product representatives will evaluate the safety of your rotors and provide a comprehensive report for each rotor examined. As part of the inspection, our representatives will present information on proper rotor care and offer recommendations based upon the current rotor condition to maximize the performance of your centrifuge.

Please contact your sales representative to schedule a clinic or visit thermofisher.com/rotorsafety

Find out more at thermofisher.com/fiberlite

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