



Ordering Information

15 mL Conical Centrifuge Tubes, Sterile

| Cat. No. | Material | Cap Style | Max RCF (x g) | Inner Pack | Qty/Pk | Qty/Cs |
|----------|----------|-----------------|---------------|--------------|--------|--------|
| 430053 | PET | Plug Seal Cap | 3,600 | Zip Lock Bag | 25 | 500 |
| 430055 | PET | Plug Seal Cap | 3,600 | Foam Rack | 50 | 500 |
| 430052 | PP | Plug Seal Cap | 12,000 | Foam Rack | 50 | 500 |
| 430766 | PP | Plug Seal Cap | 12,000 | Zip Lock Bag | 25 | 500 |
| 430790 | PP | CentriStar™ Cap | 12,000 | Foam Rack | 50 | 500 |
| 430791 | PP | CentriStar Cap | 12,000 | Zip Lock Bag | 25 | 500 |

50 mL Conical Centrifuge Tubes, Sterile

| Cat. No. | Material | Cap Style | Max RCF (x g) | Inner Pack | Qty/Pk | Qty/Cs |
|----------|----------|----------------|---------------|----------------|--------|--------|
| 430290 | PP | Plug Seal Cap | 15,500 | Foam Rack | 25 | 500 |
| 430291 | PP | Plug Seal Cap | 15,500 | Zip Lock Bag | 25 | 500 |
| 430304 | PET | Plug Seal Cap | 3,600 | Foam Rack | 25 | 500 |
| 430828 | PP | CentriStar Cap | 15,500 | Foam Rack | 25 | 500 |
| 430829 | PP | CentriStar Cap | 15,500 | Zip Lock Bag | 25 | 500 |
| 4558 | PP | CentriStar Cap | 15,500 | Universal Rack | 25 | 300 |

50 mL Self-Standing Centrifuge Tubes, Sterile

| Cat. No. | Material | Cap Style | Max RCF (x g) | Inner Pack | Qty/Pk | Qty/Cs |
|----------|----------|----------------|---------------|--------------|--------|--------|
| 430897 | PP | Plug Seal Cap | 3,000 | Zip Lock Bag | 25 | 500 |
| 430921 | PP | CentriStar Cap | 3,000 | Zip Lock Bag | 25 | 500 |

Foam Racks

| Cat. No. | Description | Qty/Pk | Qty/Cs |
|----------|---|--------|--------|
| 431355 | Standard Foam Rack for 15 mL Conical Tubes | 1 | 500 |
| 4365 | Standard Foam Rack for 50 mL Conical Tubes | 1 | 500 |
| 4366 | Universal Foam Rack for 15 mL & 50 mL Conical Tubes | 1 | 500 |

Technical Support

For additional product or technical information, please e-mail us at CLStechserv@corning.com, visit our web site www.corning.com/lifesciences or call 800.492.1110. Outside the United States call 978.635.2200.

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Corning® 15 and 50 mL Centrifuge Tubes



Life
Sciences

Thank you for choosing Corning disposable plastic centrifuge tubes for your research needs. This document contains product specifications, application guidelines, technical support and re-ordering information for 15 mL and 50 mL tubes.

Product Specifications

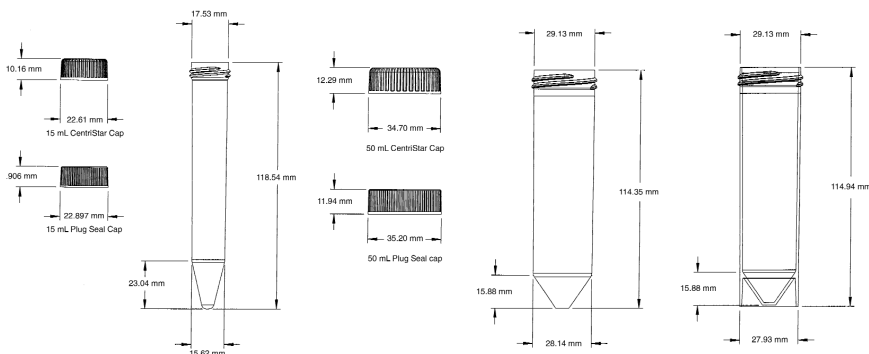
- ▶ Certified nonpyrogenic
- ▶ Certified RNase-/DNase-free
- ▶ RCF rating up to 15,500 xg.
- ▶ For sterile products: Contents sterile if package integrity is not compromised.



Materials: Corning centrifuge tubes are available in two standard materials: Polypropylene (PP) and Polyethylene terephthalate (PET). Polypropylene tubes provide excellent chemical resistance and mechanical strength. They are strong, moderately rigid, and well-suited for most disposable centrifuge applications. Polyethylene terephthalate tubes offer excellent optical clarity for ease of measurement, observation and test recording. They are recommended for use in moderately demanding environments.

Caps: These tubes are available with two styles of polyethylene screw-top caps: the advanced CentriStar™ Cap and the original Plug Seal Cap. The CentriStar Cap has an easy-on/easy-off flat top and offers advanced ergonomics with its wider knurls and roll-over edge design for easier gripping. This leak-proof design comes with a revolutionary plug feature that eliminates all seepage when used under recommended conditions. The plug seal cap is an original Corning design featuring a contoured plug for a tight, secure seal, ideal for use in shipping samples. This Corning product design has successfully passed the 95 kPa (14 psi) pressure test as referenced in IATA Dangerous Goods Regulations.

Dimensions of Corning® 15 mL and 50 mL Centrifuge Tubes



Temperature Stability: The recommended working temperature range for Corning centrifuge tubes is 0 to 40°C. The suitability of these tubes for storage below 0°C depends on both the solution and the storage conditions. It is strongly recommended that a trial run be performed under actual conditions to test the suitability of the tubes for frozen storage.

Chemical Compatibility: The mechanical strength, flexibility, color, weight, and dimensional stability of all plastic centrifuge tubes are affected to varying degrees by the chemicals with which they come in contact. Specific operating conditions, especially temperature, relative centrifugal force (RCF), rotor type, carrier design, and run length will also affect tube performance. **Always conduct a trial run to determine proper conditions before any critical use.**

Chemical Resistance of Plastic Centrifuge Tubes (Room temperature exposure for 24 hours)

| Chemical Class | Polypropylene | Polyethylene Terephthalate | Polyethylene Caps |
|----------------|----------------|----------------------------|-------------------|
| Acids (weak) | 1 | 1 | 1 |
| Acids | 1 | 3 | 1 |
| Alcohols | 1 | 1 | 1 |
| Aldehydes | 2 ^a | 3 ^a | 1 |
| Bases | 1 | 3 | 1 |
| Esters | 2 | 2 | 2 |
| Hydrocarbons: | | | |
| Aliphatic | 2 | 1 | 3 |
| Aromatic | 3 ^b | 3 | 3 |
| Halogenated | 3 | 2 | 3 |
| Ketones | 2 ^c | 2 | 2 |

Key:

1. Recommended. 2. Suitable for most applications. However, a trial run under specific operating conditions is recommended. 3. Not recommended.

Notes: ^aFormaldehyde: Rated 1. ^bPhenol: Rated 1. ^cAcetone: Rated 1.

Application Guidelines

These tubes are intended for use by persons knowledgeable in safe laboratory practices and are for laboratory use only. The following information is provided to serve as a general guideline for determining suitability of these Corning centrifuge tubes for your applications. In addition, Corning recommends following the procedures outlined by the centrifuge manufacturer, as well as conducting a trial run to determine proper conditions before beginning any critical applications. Corning centrifuge tubes are tested for leakage. (They should not break or leak if used in a properly balanced rotor with suitable carriers, holders, and adapters that fully support the tubes when run in accordance with the guidelines in this section.) These tubes are intended for one-time use only; reuse is not recommended as breakage or leakage may occur.

Centrifugation

Corning 15 mL and 50 mL plastic centrifuge tubes are rated up to a maximum RCF of 15,500 xg depending on the size and material of the tube. These ratings have been established at room temperature using tubes filled to nominal capacity with water and spun in a fully-supported rotor centrifuge for 5 minutes. If proper support is not provided, RCF values will be lower. Use of liquid other than water may also lower RCF values.

To determine the speed (RPM) at which maximum RCF is achieved for your rotor, please consult your centrifuge manufacturer's specifications and the nomogram table, located on the web at: http://www.corning.com/Lifesciences/technical_information/techDocs/nomogram.asp. Do not confuse speed or revolutions per minute (RPM) with relative centrifugal force (RCF).

Your rotor should be properly balanced and fitted with suitable carriers, holders and adapters that fully support the tubes when centrifuged. Proper balancing and distribution of the load in a centrifuge is critical for optimum performance and to prevent damage to the tubes or centrifuge. Opposing buckets or loads should always be balanced within the range specified by the manufacturer. Tubes should always be distributed in the buckets with respect to the center of rotation as well as the pivotal axis of the bucket. Failure to do this may prevent the bucket from achieving a horizontal position during the centrifugation run. Uneven separations or tube failure may result.

Caution: When centrifuging pathogenic organisms, clinical specimens known or suspected of being infectious, or any other potentially biohazardous materials, approved safety containment systems should be used. Contact your centrifuge manufacturer for appropriate accessories or recommendations.

Product Disposal

Corning does not recommend that you recycle products that have been used with hazardous material, hazardous waste or biohazard items. Should this product be used with infectious or otherwise hazardous materials, those materials should be rendered harmless by sterilization or other suitable treatment prior to disposal.