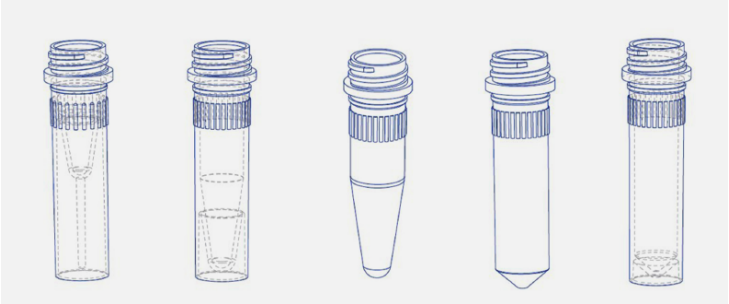
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Screw Cap Vials- The New Container Closure Tubes for your Pricey Reagents and Valuable Samples

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The goal of this article is to look at recent advances in sample handling, particularly collection, that can be used to shift traditional procedures in microbiology investigations such as Clinical or Molecular research.



For accurate biological test results that are both fast and clinically meaningful, proper specimen and reagent handling are critical. Along with proper test utilization, proper specimen handling is a crucial aspect in enhancing the cost-effectiveness and

clinical relevance of microbiological testing.

The goal of this article is to look at recent advances in sample handling, particularly collection, that can be used to shift traditional procedures in microbiology investigations such as Clinical or Molecular research.

What are Screw Cap Vials?

Small bottles or containers constructed of plastic, glass, or silicone are known as vials. As with the majority of things. There may appear to be an unlimited number of Vials. We normally classify vials according to their intended function. Screw Cap Tubes are preferred when liquid samples and high-cost reagents are required.

Unlike ordinary Blood sampling tubes, it can be like a bottle or tube and have a Conical Bottom, Flat Bottom, or Self-standing.

Why should you use Screw Cap Vials?

When thinking about the components in a vial, we have to consider a range of variables in the Life Science industry, such as storage methods, chemical inertness, and durability. In addition, we must consider the application, such as whether the vial will be used with an automated sampler machine, stored, or transported, and select a cap accordingly. Also, ensure that the cap material is inert and has the same expansion coefficient as the melt and boil points.

"Screw Cap Tubes" with EPDM "O" ring manufactured by ABDOS Life Sciences ensures excellent sealing and prevents evaporation of high-cost reagents.

Pharmaceutical firms, diagnostic centers, nutraceutical companies, and food processing companies all use Screw Cap vials as an all-rounder for their work in Life Sciences tests, research, and development.

- *In sterile or classified areas*

Applications & ABDOS advantage-

1. Samples or reagents, such as buffers, enzymes, and highly concentrated or expensive chemicals, must be stored and transported- The EPDM 'O' ring from ABDOS ensures good sealing and prevents evaporation.

2. Ideal for high-quality oligonucleotide sample collection, processing, and storage- Low binding qualities, improved sample recovery, and leakproof

3. Tubes and screw caps Material- The Septum and Screw cap are made of the same material, resulting in the same expansion coefficient, making it excellent for freezing and boiling applications such as water baths (Withstand a broad range of temperatures -80 to 121 degrees Celsius)

4. Compatibility- These tubes are compatible with most racks and storage systems and can be utilized in a variety of microcentrifuges.

5. Storage- Suitable for filling radioactive, pathogenic, and expensive compounds for long-term storage, as well as any application requiring freezing, boiling, or irradiation.

6. Samples and reagents that are sensitive to light- Tube colors include ultra-high clarity, natural color, and an Amber option that gives UV protection.

7. Compatible with Automated Systems- Screwcap tubes are intended to handle high torque pressure associated with Automation, whether it is used for filling, capping, or labeling.

8. One-handed operation

Knurl tubes can lock into customized racks and provide additional grip during in-hand activities

Source: **ABDOS Life Science**

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