

# INNOVATIVE CRYOSTORAGE SCREW CAP TUBES (-200°C TO 110°C)

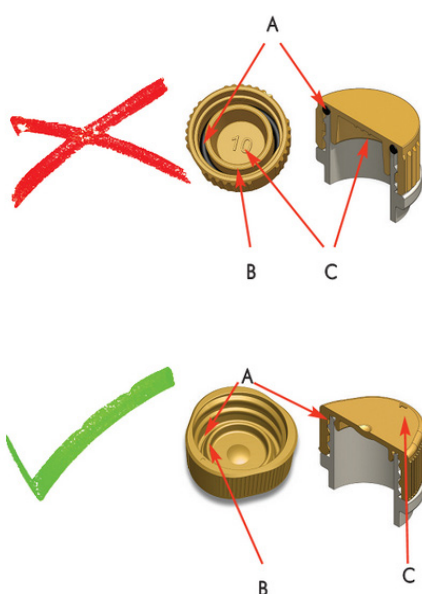
BIOplastics Screw Cap Tubes are an excellent form of storage. They have a unique design, are made out of polypropylene and have frosted areas for writing and a plain, homogeneous surface inside. Screw Cap Tubes are available in three different volumes: 0.5 ml, 1.5 ml and 2.0 ml. They are also available as conical or free standing and sterile or non-sterile. The screw cap tubes have a working range of -200°C to 110°C and can be centrifuged up to 20,000 g.

## SCREW CAP CLOSURE TECHNOLOGY

BIOplastics recently introduced a new innovative product - Screw Cap Tubes with Smart Secure Closure Technology. With this new screw cap design, the use of "old fashioned" rubber rings has become obsolete. Its performance is superior when compared to regular screw cap tubes. The absence of a rubber ring ensures that the closure is not affected when in contact with organic solvents and that no leakages will occur. The new Smart secure closure design allows frequent opening and closing, avoiding leakage even in extreme conditions.

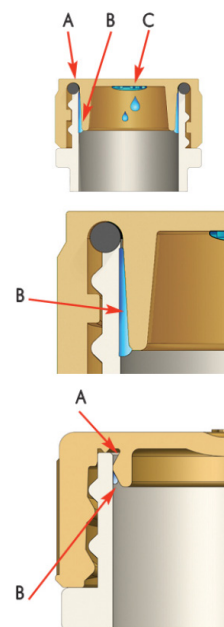
## COLOURED SCREW CAP TUBES AND COLOURED SCREW CAPS

Natural coloured screw cap tubes with coloured caps are currently used in the market place. Sometimes screw cap tubes are used with the caps attached to the tubes to prevent contamination of tubes by mixing up the caps. However pipetting with an attached cap is not ideal. The spacing of tubes, the overall footprint, and the chance of touching the inner part of the cap are all major drawbacks. To overcome these drawbacks and prevent cross contamination, we have our screw caps and screw tubes available in 10 different colours. BIOplastics is the first company in the world offering Coloured Screw Cap Tubes and Coloured Screw Caps which enable not only a wide variety of colour coded combinations (coloured tube and coloured cap) but they also significantly reduce the chance of cross contamination caused by mixing up incorrect coloured cap to tube closure.



### OLD TRADITIONAL SCREW CAP TUBES AND CAPS WITH O-RINGS

- A.** Rubber ring may contaminate your sample, dissolves in organic solutions, become brittle in time and may break at lower temperatures
- B.** Inner cylinder sitting in the tube and causes loss of sample, inconsistency of result and increases contact sample to tube surface
- C.** Cavity number inside the cap: source of binding and contamination



### SCREW CAP TUBES AND CAPS WITH SMART SECURE CLOSURE TECHNOLOGY

- A.** Smart closure, avoids sample contamination, withstands organic solutions, remains soft at extreme low and high temperatures
- B.** Absence of cylinder sitting in the tube assures maximum sample recovery, consistency of result and decreases contact sample to tube surface
- C.** Cavity number outside of the cap avoids binding and contamination

## TUBE AND CAP FACTS. WHY AND HOW IT WORKS BETTER FOR YOU.

Triangular cap:

- Decreases chance of rolling away
- Ease of handling & holding

Smart closure:

- Avoids sample contamination
- Remains soft at extreme low and high temperatures
- Enables the use of organic solvents and assures no leakage

Absence of cylinder sitting in the tube:

- Assures maximum sample recovery, consistency of results and decreases contact sample to tube surface

No logo inside of cap:

- Avoids sticking of molecules in corners and reducing total contact surface

## SECURE CLOSURE AND EASY CLOSURE CAP RANGE FOR SCREW CAP TUBES

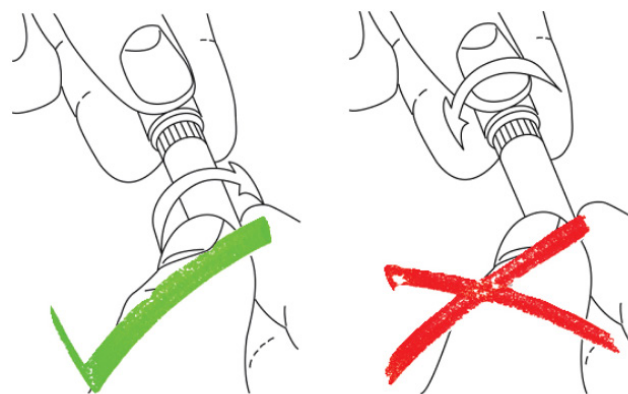
Screw caps for screw cap tubes are offered in two versions: The regular Secure Closure and the new Easy Closure Screw Cap.

For robust applications such as long term storage:  $\geq 3$  years below  $-80^{\circ}\text{C}$  or incubation at  $\geq 95^{\circ}\text{C}$  for  $\geq 2$  hours, one should opt for the regular Secure Closure Caps. For less robust applications:  $\leq 3$  years higher than  $-80^{\circ}\text{C}$  or less stringent incubation  $\leq 100^{\circ}\text{C}$   $\leq 1.5$  hours, the Easy Closure Cap is the best option. Both types of caps incorporate BIOplastics' non leakage Smart Closure Cap Technology. The Easy Closure Cap is produced from a completely different material. All types of screw caps and screw tubes are offered in 10 different colours, DNase, RNase, Pyrogen, Metal and ATP free.

## SCREW CAP TUBES AND SCREW CAP PROPERTIES

Type of Screw Cap Tube and Cap	Storage $< -80^{\circ}\text{C} \geq 3$ years	Storage $< -80^{\circ}\text{C} < 3$ years	Incubation $\geq 95^{\circ}\text{C} \geq 2$ hours	Incubation $\geq 95^{\circ}\text{C} < 2$ hours	Storage $> -80^{\circ}\text{C} \geq 3$ years	Storage $> -80^{\circ}\text{C} < 3$ years
Regular Screw Cap Tubes with Secure Closure Cap	yes	yes	yes	yes	yes	yes
Regular Screw Cap Tubes with Easy Closure Screw Cap	no	yes	no	yes	no	yes
Low Binding Screw Cap Tubes with Secure Closure Cap	yes	yes	yes	yes	yes	yes
Low Binding Screw Cap Tubes with Easy Closure Screw Cap	no	no	yes	yes	no	yes
Bead-Beat Screw Cap Tubes with Secure Closure Cap	yes	yes	yes	yes	yes	yes
Bead-Beat Screw Cap Tubes with Easy Closure Screw Cap	yes	yes	no	yes	yes	yes

## HOW TO OPEN AND CLOSE THE TUBES EASILY



**Screw the tube to the cap instead of the cap to the tube!**