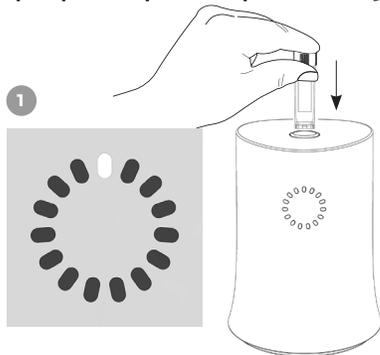
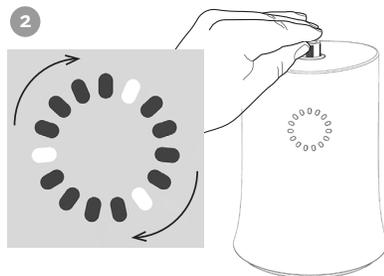


ThawSTAR™ Quick Start Guide

Upon power-up of unit, please allow 5 minutes for instrument warm-up.



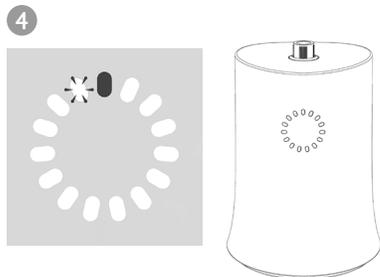
Unit is warmed up and in "ready" state. Insert a clean, tightly capped frozen 1.8 - 2.0 mL cryogenic vial (below -70°C) containing 1.0 mL volume into the opening on the top of the unit.



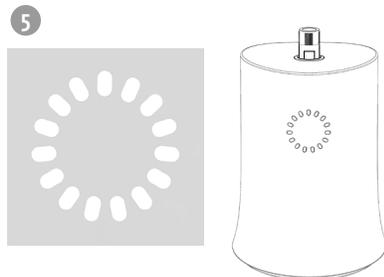
Push the top of the vial down gently until the unit emits a deep dual tone. The vial will now remain in a depressed position.



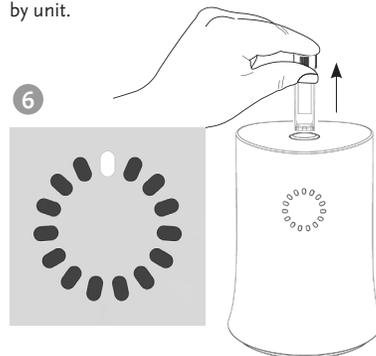
Beginning of solid to liquid phase change is detected by unit.



Countdown of the last 10 seconds of the thawing process begins.

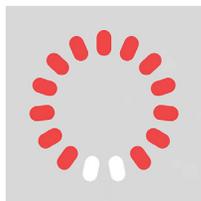


Upon thaw completion, the vial is raised approximately 1 cm (0.4 in).



Remove vial immediately and for a few seconds, manually agitate the vial gently from side to side to equilibrate the liquid temperature until no ice can be seen within the vial. Begin downstream protocol.

ThawSTAR™ Error Code Guide

**Error Code 2:**

Failure to warm up properly; or other mechanical fault in the heating system.

Solution:

Check power source connection at back of unit, cable connection to power adapter and the plug connection to the electrical outlet. Turn the unit off and back on. If the unit displays the same error code 2, contact BioCision customer service.

**Error Code 3:**

Vial too warm and/or already thawed.

Vial cannot be fully seated.

Solution:

Gently remove the vial. Remove any obstructions by inverting unit, and gently shaking. Ensure thermal pad linings are intact and undamaged. Reinsert frozen vial.

**Error Code 5:**

Unit does not detect phase change.

Solution:

Wait until thaw cycle is complete; remove vial. Check to confirm volume is 1.0 mL; smaller volumes may trigger error code 5.

**Error Code 7:**

Vial fails to rise after thaw process is finished.

Solution:

Grasp the vial cap only with fingers or forceps and rock vial gently to dislodge and remove from opening, taking care not to open the cap. Avoid sticking forceps or other foreign objects into the opening.

Error Code 7:

“Abandoned” vial is left in unit more than 15 seconds past thaw completion.

Solution:

Gently remove vial. Unit will emit a single tone. Unit will display a single light at the top, indicating that the unit is ready for the next thaw.

biocision®

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