

Example of a calibration set-up for Cryo Shipper Monitoring System:



Dish-shaped dewar flask with certified reference instrument.



Liquid Nitrogen in LN2 tank.



Fill dewar flask with LN2, about 10 cm deep. Take care – wear gloves.



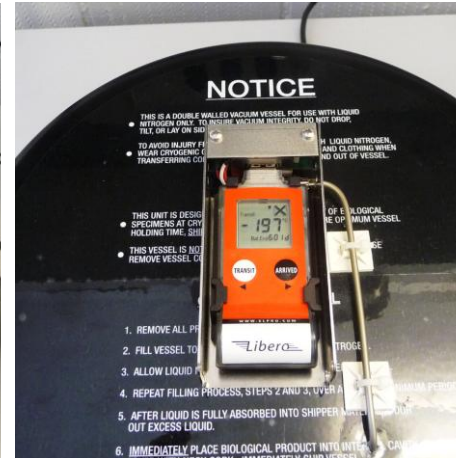
Check LN2 temperature with the reference instrument. Depending on the atmospheric pressure, it will show a temperature between -195°C and -197°C . Cover the top with a styrofoam to prevent from strong boiling.



Enter the cork into or above the liquid nitrogen.



Lower cork to close the system; wait for 10 minutes in order to stabilize the set-up.



After 10 minutes, check temperature of LIBERO Te1-Px.

For a new system, the reading should be within $\pm 2^{\circ}$ of the reference instrument, i.e. between -194°C and -198°C . Acceptable tolerance may be higher depending on the quality of the used Pt100 probe.