Black mat antifreeze activity assay: Dendritic burst (stills per 0.2 seconds) Cooling rate: 0.074 °C per minute

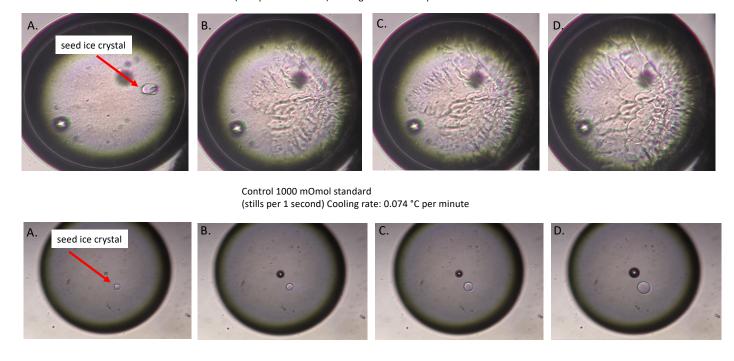


Figure S7 (top) Visualization of a dendritic burst of a seed ice crystal cooled at a rate of 0.074°C/min in a well with black mat sample lysate. Images are taken sequentially (**A**) 0.2 sec (**B**) 0.4 sec (**C**) 0.6 sec (**D**) 0.8 sec.

(**bottom**) A seed ice crystal cooled at a rate of 0.074°C/min in a well with 1000 mOsmol standard. Images are taken sequentially (**A**) 1 sec (**B**) 2 sec (**C**) 3 sec (**D**) 4 sec