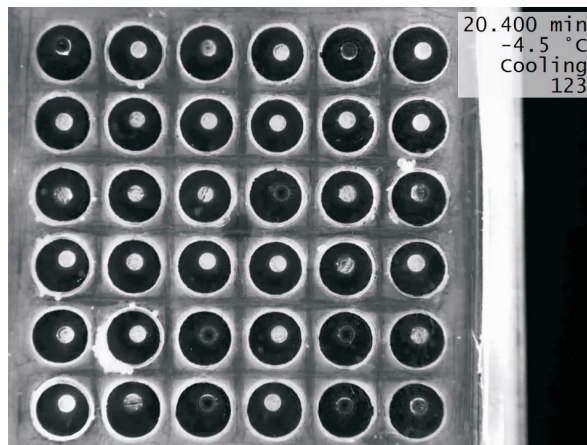


We provide a movie in the supplementary material of a typical experiment during one cooling/heating cycle of an entire array shown in Fig. S1. The analysis of this experiment is described exemplarily for one drop in detail in the main paper text (see section 2 and Fig. 2.)



**Fig. S1.** Movie of an example experiment with droplets containing Snomax<sup>®</sup> ( $1 \cdot 10^{-1} \mu\text{g drop}^{-1}$ ) describing the automatic detection of nucleation events by the change in brightness during freezing. Corresponding detailed information regarding the analysis is presented in Fig. 2 in the main text.