

Efficient meiosis for timelapse

(adapted from Fission Yeast Handbook by Paul Nurse Lab)

Rebeca Martín García & Alberto Pineda Santaella

h90 haploids

1. Thaw cells in YES plates and incubate for 1-2 days at 25-32°C.
2. Grow a culture in liquid YES at 25-30°C with 200 rpm agitation up to saturation.
3. Subculture in liquid MM 1% Glu + Sup to reach O.D. 0.5-0.7 with 200 rpm agitation.

For the generation time, you can estimate:

Genotype	T (°C)	Gen. time (h)
wt	28°C	4.5
imp1Δ bqt1Δ sad1.2	25°C	9.5

4. Centrifuge for 3 min at 3000 rpm.
5. Discard supernatant by pouring and wash pellet with equal volume of MM - N.
6. Centrifuge for 3 min at 3000 rpm.
7. Remove supernatant completely by pipetting.
8. Resuspend pellet in 100 uL MM - N.
9. Plate a drop of 25 uL of suspension in a MEA plate and incubate for 5 h at 28°C.