

Technical table¹ for *Humulus*

	Maintenance	Cold acclimation	Encapsulation	Loading	Dehydration	Vitrification	Rewarming	Recovery
Photoperiod	16 h light/8 h dark	24 h dark						16 h light/8h dark
Light Intensity	55 $\mu\text{M m}^{-2} \text{s}^{-2}$							Step 1: 27 $\mu\text{M m}^{-2} \text{s}^{-2}$ Step 2: 27 $\mu\text{M m}^{-2} \text{s}^{-2}$ Step 3: 55 $\mu\text{M m}^{-2} \text{s}^{-2}$
Temperature	25±3 °C	5°C	21°C	21°C	21°C		21°C	25±3°C
Transfer interval	Step 1: 3 weeks Step 2: 3 weeks	15 days	Step 1: not applicable Step 2: 30 minutes	18-20 hours	varies		5 minutes	Step 1: 7 days Step 2: 7 days Step 3: not applicable
Vessel used	Magenta® GA7*	Magenta® GA7*	Step 1: Petri dish Step 2: flask	flask	Petri dish in laminar flow hood	cryovial	cryovial	Petri dish
Medium used	Step 1: <i>Humulus</i> growth I (HGI) Step 2: <i>Humulus</i> growth II (HGII)	<i>Humulus</i> growth II (HGII)	Step 1: Ca-free MS+ 3% Na-alginate Step 2: 100 mM CaCl ₃ +MS encapsulation	0.75M sucrose+MS				Steps 1-3: <i>Humulus</i> recovery

¹Table does not show steps for blanks and controls