

Technical Table for *Ipomoea*

	Maintenance	Nodal Sections	Shoot tip isolation	Encapsulation	Preincubation	Preculture
Photoperiod	16h light/8h dark	16h light/8h dark				
Light intensity	55 $\mu\text{mol m}^{-2} \text{s}^{-2}$	55 $\mu\text{mol m}^{-2} \text{s}^{-2}$				
Temperature	25 \pm 3°C	25 \pm 3°C	21°C	21°C	25 \pm 3°C	25 \pm 3°C
Transfer interval	4-6 weeks			Step 1: not applicable Step 2: 30 minutes	24 h	16 h
Vessel used	Magenta® GA7* culture vessel	Petri dish	Petri dish	flask	flask	flask
Media used	MS multiplication	MS+BA nodal	MS preincubation	Step 1: Ca-free MS+3% Na-alginate Step 2: 0.1 M CaCl+MS encapsulation	MS preincubation	0.3 M sucrose+ MS preculture

Technical Table for *Ipomoea*, continued

	Loading	Dehydration	Vitrification	Rewarming	Recovery
Photoperiod					Step 1: not applicable Step 2: not applicable Step 3: 16h light/8h dark
Light Intensity					Step 1: not applicable Step 2: approx. 27 $\mu\text{mol m}^{-2} \text{s}^{-2}$ Step 3: 55 $\mu\text{mol m}^{-2} \text{s}^{-2}$
Temperature	21°C	21°C		Step 1: 38°C, water bath Step 2: 21°C	Steps 1-3: 25±3°C
Transfer interval	3 h	1 h		Step 1: 1.5 min Step 2: 20 min	Step 1: 2d Step 2: 3d Step 3: as needed
Vessel used	flask	flask	cryovial	flask	Petri dish
Media used	1.6 M sucrose+2 M glycerol+ MS loading	PVS2+1/2 strength MS	PVS2+1/2 strength MS	Step 1: not applicable Step 2: 1.2 M sucrose + MS preculture	Step 1: <i>Ipomoea</i> recovery I Step 2: <i>Ipomoea</i> recovery I Step 3: <i>Ipomoea</i> recovery II