

**Supplemental File 1a.** Culture media for for night lily micropropagation.

**Murashige & Skoog (MS) medium(per 100ml)**

MS powder	0.44 g
Sucrose	3.0 g
Phytigel	0.2 g
H <sub>2</sub> O to	100 mL
pH	5.8-6.2 (Adjust with 1.0 M NaOH)

**½ MS medium(per 100ml)**

MS powder	0.22 g
Sucrose	3.0 g
Phytigel	0.2 g
H <sub>2</sub> O to	100 mL
pH	5.8-6.2 (Adjust with 1.0 M NaOH)

**¼ MS medium(per 100ml)**

MS powder	0.11 g
Sucrose	3.0 g
Phytigel	0.2 g
H <sub>2</sub> O to	100 mL
pH	5.8-6.2 (Adjust with 1.0 M NaOH)

**Gamborg B-5 (B5) medium(per 100ml)**

B5 powder	0.32 g
Sucrose	3.0 g
Phytigel	0.2 g
H <sub>2</sub> O to	100 mL
pH	5.8-6.2 (Adjust with 1.0 M NaOH)

**Chu N6 (N6) medium(per 100ml)**

N6 powder	0.40 g
Sucrose	3.0 g
Phytigel	0.2 g
H <sub>2</sub> O to	100 mL
pH	5.8-6.2 (Adjust with 1.0 M NaOH)

**Supplemental File 1b.** Chemicals and stock solution preparation for night lily micropropagation.

Reagents	Stock solution preparation	Stock concentration	Vendors	CAT #
Murashige & Skoog (MS)	-	-	PhytoTech Labs, USA	M519
Gamborg B-5 (B5)	-	-	PhytoTech Labs, USA	G398
Chu N6 (N6)	-	-	PhytoTech Labs, USA	C167
Gellan Gum, CultureGel (Phytigel)	-	-	Solarbio, Beijing, China	P8170
Sucrose	-	-	Kaitong Chemical Reagent Co., Ltd, China	-
Thidiazuron (TDZ)	Dissolve 0.1 g TDZ in 1 mL of 1 mol/L NaOH, then add dH <sub>2</sub> O to 10 mL	10 mg/mL	Solarbio, Beijing, China	T8050
6-benzylaminopurine (6-BA)	Dissolve 0.02 g 6-BA in 1 mL of 1 mol/L NaOH, then add dH <sub>2</sub> O to 10 mL	2 mg/mL	Solarbio, Beijing, China	A8170
2,4-dichlorophenoxyacetic acid (2,4-D)	Dissolve 0.01 g 2,4-D in 1 mL absolute ethanol, then add dH <sub>2</sub> O to 10 mL	1 mg/mL	Solarbio, Beijing, China	D8100
$\alpha$ -naphthaleneacetic acid (NAA)	Dissolve 0.01 g NAA in 1 mL absolute ethanol, then add dH <sub>2</sub> O to 10 mL	1 mg/mL	Solarbio, Beijing, China	N8010
0.1% HgCl <sub>2</sub>	Dissolve 0.5 g HgCl <sub>2</sub> in 10 mL absolute ethanol, then add dH <sub>2</sub> O to 500 mL	1 g/L	Kermel, Tianjin, China	-