

Micropropagation of *Populus tremula* x *P. alba* INRA 717-1B4

SEM: MS (3% sucrose) + glutamine (0.2 g/L) + BAP (0.05 mg/L), pH 5.8

RIM: ½MS (2% sucrose) + glutamine (0.2 g/L) + IBA (0.1 mg/L), pH 5.8

½MS: ½MS (2% sucrose) + glutamine (0.2 g/L), pH 5.8

1. Cut stems into nodal segments and place onto SEM media to promote axillary bud growth.
2. Excise individual shoots, ~1" in height and place onto RIM for root induction. Rooted plants can be maintained in the media for up to ~6 weeks, depending on plant growth. Don't let the shoot tip reach the top of the lid.
3. Subculture the shoot top (~1" in length) with lower leaves trimmed (so that leaf tips will not touch media) to fresh RIM for rooting. Use the middle portion for micropropagation on SEM as in Step 1 above. The bottom portion with roots and 1-2 nodes can remain in the original media/cup for induction of new sprouts. Elongated shoots are subcultured as in Step 2.

