

LSOP Title	Hydroponic Pea Media Preparation
LSOP No.	LSOP17
Version	1.1
Location	UQ Node/Centre-wide
Policy/Procedure Link	UQ- Equipment UQ -waste
Risk Assessments	
Approved by	Elizabeth Dun
Date Approved	16/08/2021
Date Effective	14/06/2021
Next Review Date	14/06/2026
Contact for Assistance	plantsuccess@uq.edu.au

1.0 Scope

This procedure covers the preparation of medium that is used for Eppendorf seed germination.

This LSOP does not include the hydroponic solution for growth of plants (see LSOP18).

2.0 Definitions

MS medium - Murashige and Skoog Basal Medium

PPM – preservative plant mixture

KOH – Potassium Hydroxide

3.0 Materials and Equipment

1. 1000ml (or 1L) Schott bottles
2. 2L beaker
3. Decon
4. milliQ water
5. Sucrose
6. MS medium

- 7. Agar
- 8. PPM
- 9. KOH
- 10. pH meter
- 11. Autoclave
- 12. Autoclave tape



4.0 Prescribed Actions



- 1. Wash one 1000mL Schott bottles with Decon, rinse with distilled water.
- 2. Rinse 2L beaker and stirrer with distilled water.
- 3. Add 0.5L milliQ water to beaker.
- 4. Add 2.5g sucrose (0.5%), 1.1g MS (half) and 0.5mL PPM (0.1%) to water and stir.



- 5. Check pH with pH meter. Add 10M KOH to bring pH to 5.8.
- 6. Pour 500mL of media into Schott bottle.
- 7. Add 4.5g agar (0.9%) to each 500mL of media.
- 8. Loosen lids to autoclave. If pouring plates on same day, transfer media to 65°C oven. Otherwise, allow media to set on lab bench, and melt media in microwave on day of pouring. (See LSOP18 for pouring of plates).

