

LSOP Title	Media Preparation (Adventitious Rooting 0.5% sucrose)
LSOP No.	LSOP21
Version	1.1
Location	UQ Node/Centre-wide
Policy/Procedure Link	<a href="#">UQ- Equipment</a> <a href="#">UQ -waste</a>
Risk Assessments	
Approved by	Franziska Fichtner
Date Approved	30/08/2021
Date Effective	18/06/2021
Next Review Date	18/06/2026
Contact for Assistance	<a href="mailto:plantsuccess@uq.edu.au">plantsuccess@uq.edu.au</a>

## 1.0 Scope

*This procedure covers the preparation of media for adventitious rooting (0.5% sucrose)*

*This LSOP does not cover other media preparation.*

## 2.0 Definitions

MS – Murashige and Skoog Agar

MES - Agar

KOH – Potassium Hydroxide

milliQ water -

## 3.0 Materials and Equipment

1. 500mL Schott Bottles
2. Decon
3. 5L beaker
4. Stirrer
5. milliQ water

6. Sucrose

7. MS

8. MES

9. KOH

10. pH Meter

11. Agar

12. Autoclave

13. Water bath

## 4.0 Prescribed Actions

1. Wash required number of 500 mL Schott bottles with Decon, rinse with distilled water

2. Rinse 5 L beaker and stirrer with distilled water

3. Add milli Q water to beaker

4. Add sucrose, MS and MES to water and stir

5. Check pH with pH meter. Add 5M KOH to bring to pH 5.7 (~ 120 uL per 500 mL)

6. Pour 500 mL of media into each Schott Bottle

7. Add 5g agar (1% w/v) to each 500 mL of media

8. Loosen lids and autoclave (on media setting). If pouring plates on same day, transfer media to 65C water bath. Otherwise, allow media to set on lab bench, and melt media in microwave on day of pouring. (See LSOP79 for pouring agar plates)

**LABORATORY STANDARD OPERATING PROCEDURE (LSOP)**ARC COE for Plant Success in Nature and Agriculture: *Media Preparation for Adventitious Rooting (0.5% Sucrose)*

\*\*\*\* 500 mL media is sufficient for 12-14 square plates.

# 500 mL Schott bottles	Volume of water	Sucrose	MS salts	MES
1	0.5 L	2.5 g	0.58 g	0.25 g
2	1.0 L	5.0 g	1.15 g	0.50 g
3	1.5 L	7.5 g	1.72 g	0.75 g
4	2.0 L	10.0 g	2.30 g	1.00 g
5	2.5 L	12.5 g	2.88 g	1.25 g