

LSOP Title	Soil screening of primary transformants (only for BASTA resistance)		
LSOP No.	LSOP29		
Version	1.1		
Location	UQ Node/Centre-wide		
Policy/Procedure Link	UQ- Equipment UQ -waste OGTR		
Risk Assessments			
Approved by	Milos Tanurdzic		
Date Approved	11/10/2021		
Date Effective	18/06/2021		
Next Review Date	18/06/2026		
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## 1.0 Scope

This procedure covers the soil screening of primary transformants (only for BASTA resistance) based on the floral dipping of Arabidopsis based on the Zhang et al., 2006 short version method

This LSOP does not cover floral dipping of other species.

## 2.0 Definitions

Cotyledons – embryonic leaf

# 3.0 Materials and Equipment



- 1. Spray bottle
- 2. BASTA or glufosinate ammonium
- 3. Clear plastic film

### 4.0 Prescribed Actions

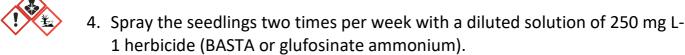
1. Spread non-sterile seed onto moistened soil under normal condition

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#### LABORATORY STANDARD OPERATING PROCEDURE (LSOP)

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- 2. Cover the soil and tray with a clear plastic film until the germinated seedlings develop four to six leaves
- 3. Initiate the herbicide spraying when the cotyledons are visible, normally around 8-10 d after sowing.



NB: True transformants will develop, while non-transformants will become chlorotic and eventually die after 3-4 weeks of herbicide treatment.

# 5.0 Appendix

Read the full protocol before starting with this short version (the side notes are useful)

Zhang, X., et al. (2006) Agrobacterium-mediated transformation of Arabidopsis thaliana using the floral dip method.

https://www.nature.com/articles/nprot.2006.97

