Protocol for histochemical localization of GUS activity

(Sonali Roy May 2014 – Modified from Giulia Morieri 2010)

- 1. Prepare fresh sodium/potassium phosphate buffer. Add X-GlcA stock.
- 2. Immerse roots/seedlings in buffer. If checking root hairs use a forcep to gently push the root under the buffer to insure root hairs are covered in solution.
- 3. Wrap the petri dish with aluminium foil and place it in the 28 degree chamber.
- 4. Start checking for expression of GUS from 2 hours or leave overnight.
- 5. Wash with Z buffer/sterile water to stop reaction before imaging.

	COMPONENT	STOCK	REQUIRED	VOLUME (50 mL)
1.	Sodium Phosphate (pH7.4)	1M	50 mM	2.5 mL
2.	EDTA	0.5M	1 mM	100 uL
3.	Triton-X	-	1%	50 uL
4.	Water	-		47.150 mL
5.	X-GlcA	62.3 mg in 250 ul DMF	28 ul per 7 mL buffer	196 uL