Staining Plants for GUS Activity

- Place plants (or organs) to be tested in a small Petri plate, a multiwell plate or a microfuge tube
- Cover the tissue with the GUS-staining medium (try to use as little as possible **EXPENSIVE**)
- Infiltrate tissue 3 times for 1 minute, each time "gently" releasing the vacuum
- Incubate 4-5 hours up to ON at 37°C
- remove media and discolore tissue by washing it 3 times for 90 minutes with 70% Ethanol
- assess staining macroscopically or microscopically

Medium:	372.5 ml	ddH_2O
	7.5 ml	0.5M EDTA, pH 8.0
	3.2 ml	Triton X100 12%
	0.12 g	Sodium DiHydrogenoPhosphate (NaH_2 Phosphate)
	0.142 g	Di Sodium HydrogenoPhosphate (Na_2H Phosphate)
	0.25 g	Potassium hexacyanoferrat (Fe^{3+})
	0.321 g	Potassium hexacyanoferric (Fe^{2+})

Substrate X-Gluc (5-bromo-4-chloro-3-indolyl glucuronide) **1mg/ml medium**