β-gal staining protocol

**Materials**

1. Fixative (can use either glut or para)

glut fix (make fresh)

25% glutaraldehyde 40 μl

1 M MgCl2 12 μl

0.1 M EDTA pH 7.3 300 μl

PBS 4.65 ml

4% paraformaldehyde in PBS

1. β-gal wash

1 M MgCl2 0.4 ml

2% NP-40 2.0 ml

PBS 197.6 ml

1. β-gal stain

100X KFe 100 μl

100X KFi 100 μl

100X X-gal 100 μl

Β-gal wash 9.7 ml

**Procedure**

1. If using Glut fix, fix for 8 min at RT

If using Para, fix for 5 min at RT

1. β-gal wash (rinse once, then wash for 5 min at RT)
2. β-gal stain at 37°C overnight (can keep old solution; filter and reuse)