

Prep sheet:

Look Ma, No Archenteron! Sulfate's role in sea urchin early development

male and female sea urchins

2 Large glass dishes

Beakers

Depression slides and coverslips

Pasteur pipets and bulbs

50 ml centrifuge tubes

Centrifuge

ASW: Artificial sea water (MBL)

NaCl 24.72 g

KCl 0.67 g

CaCl<sub>2</sub>·2H<sub>2</sub>O 1.36 g

MgCl<sub>2</sub>·6H<sub>2</sub>O 4.66 g

MgSO<sub>4</sub>·7H<sub>2</sub>O 6.29 g

NaHCO<sub>3</sub> 0.18 g

dH<sub>2</sub>O to 1 liter

Sulfate-free Sea water

NaCl 27.72 g

KCl 0.67 g

CaCl<sub>2</sub>·2H<sub>2</sub>O 1.36 g

MgCl<sub>2</sub> 9.32 g

NaHCO<sub>3</sub> 0.18 g

dH<sub>2</sub>O to 1 liter

0.5 M KCl to induce gamete shedding

Methanol

5C7 monoclonal antibody

Texas red-conjugated anti-mouse IgG

PBS

AP substrate buffer

AP substrate