

**2xPEM, 250ml (Filter sterilized)**

1M, PIPES pH6.9	50ml
0.1M EGTA, pH8.0	5ml
1M MgCl <sub>2</sub>	0.5ml
MilliQ	to 250ml

**PEMS, 100ml (Filter sterilized)**

2xPEM	50ml
Sorbitol	21.86g
MilliQ	to 100ml

**PEMST, 10.5ml (prepare required amount, just before use)**

PEMS	10ml
20% Triton X-100	0.5ml

**PEMBALG, 10ml (Prepare required amount, just before use)**

2xPEM	5ml
10% BSA	1ml
2% Azide	0.1ml
1M Lysine	1ml
10% Gelatin	0.5ml
MilliQ	2.4ml

Filtration is recommended

**200xZymolyase, 1ml**

2xPEM	0.5ml
60% glycerol	0.5ml
Zymolyase 100T	10mg

make 100µl aliquot, store @-20°C

**30% formaldehyde, 10ml****(prepare required amount, just before use)**

paraformaldehyde	3.8g
1xPEM	10ml
10N NaOH	70µl

incubate @65°C until it get dissolved, occasionally invert tube)

**\*\* when mix chemicals, water should be always the first**

**1M PIPES, pH6.9, 200ml, filter sterilized**

PIPES	60.48g
MilliQ	to 200ml

original pH2~3 to pH6.9 by adding NaOH  
first NaOH tablet, then use NaOH solution

**0.1M EGTA, pH8.0, 100ml, autoclaved**

EGTA	3.804g
MilliQ	to 100ml

original pH3~4 to pH8.0 by adding NaOH  
EGTA does not get dissolved until you add NaOH

**20% Trion X-100, 50ml**

TritonX-100	10ml
MilliQ	40ml

mix directly in a conical tube

**10% BSA, 50ml, stored @4 °C**

BSA, fraction V	5g
2% Azide	0.5ml
MilliQ	to 50ml

mix directly in a conical tube

**1M Lysine, 50ml**

L-Lysine	9.133g
2% Azide	0.5ml
MilliQ	to 50ml

mix directly in a conical tube

**10% Gelatin, 45ml, store @4 °C**

45% Gelatin (G7765, Sibma)	10ml
2% Azide	0.45ml
MilliQ	to 45ml

**\*\* when mix chemicals, water should be always the first**