

## APPENDIX

### Buffers and Reagents

1. Dulbecco's Modified Eagle's medium (DMEM) stock medium 1 liter

Sodium Pyruvate powder 110 mg

Penicillin-Streptomycin solution 11 ml

HEPES, Free acid 11 ml

Store at 4°C

2.  $\alpha$ -modified Minimal Essential Medium (MEM- $\alpha$ ) stock medium 1 liter

Penicillin-Streptomycin solution 11 ml

HEPES, Free acid 11 ml

Store at 4°C

3. 1X Phosphate Buffered Saline (PBS) 1 liter

Phosphate Buffered Saline dry powder in foil pouch 1 packet

Add ddH<sub>2</sub>O up to 1 liter and sterilize by autoclaving

4. BA-1 viral diluent 100 ml

Filter 10X medium-199 5 ml

Autoclaved 1 M Tris-HCl pH 7.6 5 ml

2% BSA fraction V 20 ml

7.5% NaHCO<sub>3</sub> 1 ml

Penicillin-Streptomycin solution 1 ml

Add ddH<sub>2</sub>O up to 100 ml

\*\* Prepare freshly before use

5. 2X Nutrient solution	100	ml
20X EBSS	9.8	ml
Ye-lah	6.6	ml
Fetal Bovine Serum (FBS)	6	ml
Gentamycin	0.5	ml
7.5% NaHCO <sub>3</sub>	6	ml
Add ddH <sub>2</sub> O up to 100 ml		
** Prepare freshly before use		
6. 1.6% Seakem LE agarose	100	ml
Seakem LE agarose	1.6	g
Add ddH <sub>2</sub> O up to 100 ml		
Melted gel by microwave		
** Prepare freshly before use		
7. Ye-lah solution	100	ml
Yeast extracts	1	g
LactalbuminHydrolysate	5	g
Add ddH <sub>2</sub> O up to 100 ml		
Sterilized by filtering through a 0.45 µm membrane filter		
Store at 4°C		
8. 2% BSA fraction V	500	ml
BSA fraction V powder	10	g
Add ddH <sub>2</sub> O up to 500 ml		
Sterilized by filtering through a 0.45 µm membrane filter		
Store at 4°C		

9. 10x TBS buffer	1	liter
Tris-HCl	121.1	g
NaCl	90	g
ddH <sub>2</sub> O	900	ml
Adjust pH to 7.5		
Add ddH <sub>2</sub> O up to 1 liter		
10. 1x TBS buffer	1	liter
10x TBS buffer	100	ml
Add ddH <sub>2</sub> O up to 1 liter		
11. 10x Transfer buffer	800	ml
Tris-HCl	30.28	g
Glycine	144.13	g
Add ddH <sub>2</sub> O up to 800 ml		
12. 1x Transfer buffer	1	liter
10x Transfer buffer	80	ml
Methanol	200	ml
Add ddH <sub>2</sub> O up to 1 liter		
Store at 4°C		
13. 5% Skim milk in TBS buffer	50	ml
Skim milk powder	2.5	g
TBS buffer	50	ml
** Prepare freshly before use		

14. RIPA-buffer	100	ml
0.5 M Tris-HCl	10	ml
0.5 M NaCl	30	ml
0.5 M EDTA	2	ml
0.1% SDS	0.1	g
Triton X-100	1	ml
1% Sodium deoxycholate	1	g
ddH <sub>2</sub> O	80	ml
Add dH <sub>2</sub> O up to 100 ml		
Add 100X Protease inhibitor before use		
** Prepare freshly before use		
15. 4x Running gel buffer	200	ml
Tris-HCl	36.3	g
Adjust pH to 8.8		
Add ddH <sub>2</sub> O to 200 ml		
Store at 4°C		
16. 4x Stacking gel buffer	50	ml
Tris-HCl	3	g
Adjust pH to 8.8		
Add ddH <sub>2</sub> O to 50 ml		
Store at 4°C		
17. 15% Separating solution	10.07	ml
4X Running gel buffer, pH 8.8	2.5	ml
30% Acrylamide	5	ml
10% SDS	0.1	ml

10% Ammonium persulfate	65	μl
TEMED	5	μl
ddH <sub>2</sub> O	2.4	ml
18. 4% Stacking solution	3.361	ml
4x Stacking gel buffer, pH 6.8	0.625	ml
30% Acrylamide	0.325	ml
10% SDS	25	μl
10% Ammonium persulfate	12.5	μl
TEMED	2.5	μl
ddH <sub>2</sub> O	1.525	ml
19. 10X SDS-PAGE running buffer	1	liter
Tris-HCl	30.28	g
Glycine	144.13	g
SDS	10	g
Add ddH <sub>2</sub> O to 1 liter		
20. 1X SDS-PAGE running buffer	1	liter
10X SDS-PAGE running buffer	100	ml
Add ddH <sub>2</sub> O to 1 liter		
21. Coomassie blue staining	400	ml
Coomassie Brilliant Blue R250	0.4	g
Methanol	160	ml
Glacial acetic acid	40	ml
Add ddH <sub>2</sub> O to 400 ml		

Filter through a filter paper

22. Destaining solution	1	liter
Methanol	400	ml
Glacial acetic acid	100	ml
Add ddH <sub>2</sub> O to 1 liter		

23. 20X Earle's Balanced Salts Solution (EBSS)	500	ml
CaCl <sub>2</sub> ·2H <sub>2</sub> O	2.65	g
KCl	4	g
MgSO <sub>4</sub> ·7H <sub>2</sub> O	2	g
NaCl	68	g
NaH <sub>2</sub> SO <sub>4</sub> ·H <sub>2</sub> O	1.25	g
Glucose	10	g

Add ddH<sub>2</sub>O to 500 ml

Sterilized by filtering through a 0.45 μm membrane filter

Store at 4°C