Buffers and Media

Buffers

Citrate-Phosphate Buffer (McIlvaine-Buffer)[1]

For 20 ml of buffer, mix 0.2 M Na_2HPO_4 and 0.1 M citric acid according to table:

Desired pH	**0.2 M Na_2HPO_4**	**0.1 M citric acid**
2.2	0.40	19.60
2.4	1.24	18.76
2.6	2.18	17.82
2.8	3.17	16.83
3.0	4.11	15.89
3.2	4.94	15.06
3.4	5.70	14.30
3.6	6.44	13.56
3.8	7.10	12.90
4.0	7.71	12.29
4.2	8.28	11.72
4.4	8.82	11.18
4.6	9.35	10.65
4.8	9.86	10.14
5.0	10.30	9.70
5.2	10.72	9.28
5.4	11.15	8.85
5.6	11.60	8.40
5.8	12.09	7.91
6.0	12.63	7.37
6.2	13.22	6.78
6.4	13.85	6.15
6.6	14.55	5.45
6.8	15.45	4.55
7.0	16.47	3.53
7.2	17.39	2.61
7.4	18.17	1.83
7.6	18.73	1.27
7.8	19.15	0.85
8.0	19.45	0.55

2xSDS Sample Buffer

Ingredient	**Volume in ml**
1 M Tris pH 6.8	0.6
Glycerol	5
20 % SDS	1
Bromphenol blue	Small tip of spatula
1 M DTT	1
Water	2.4
Final	10

SDS Sucrose Buffer

Ingredient	**Amount**
20 % SDS	25 ml
Sucrose	15 g
Water	To 50 ml
Final	50 ml

DTT-Carbonat

Ingredient	**Volume in µl**
1 M DTT	100
1 M Sodium-Carbonat	100
Water	800
Final	1000

Lämmli Running Buffer

Ingredient	**Volume in ml**
250 mM Tris	100
1.34 M Glycine	100
20 % SDS	5
0.5 M EDTA	2
Water	To 1 l
Final	1 l

Media

Revised TAP Medium

See Kropat *et. al,* 2011[2]

TAP-Agar Plates

Add 15 g of select agar to 1 l of revised TAP medium. Autoclave for 1 h.

LB-Medium

Add 10 g Tryptone, 5 g yeast extract and 10 g sodium chloride together. Fill up to 1 l with aqua dest. Autoclave for 1 h.