

APPENDIX

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List of solutions and buffers

30% Monomer

| | |
|-------|---------------|
| 29.2% | Acrylamide |
| 0.8% | Bisacrylamide |

Separating gel buffer

| | |
|-------|-----------------|
| 1.5 M | Tris-HCl pH 8.8 |
|-------|-----------------|

Stacking gel buffer

| | |
|-------|-----------------|
| 0.5 M | Tris-HCl pH 6.8 |
|-------|-----------------|

2X-Laemmli sample buffer

| | |
|-------|-------------------------|
| 0.5 M | Tris-HCl pH 6.8 |
| 0.3% | Bromophenol blue |
| 20% | Glycerol |
| 0.4% | SDS |
| 20 mM | DL-Dithiothreitol (DDT) |

Running buffer

| | |
|--------|-----------|
| 25 mM | Tris base |
| 192 mM | Glycine |
| 0.1% | SDS |

Transfer buffer

| | |
|--------|-----------|
| 25 mM | Tris base |
| 192 mM | Glycine |
| 0.1% | SDS |
| 20% | Methanol |

Coomassie blue staining solution

| | |
|-------|----------------------|
| 45% | Methanol |
| 10% | Acetic acid |
| 0.25% | Coomassie Blue R-250 |

Destaining coomassie blue solution

| | |
|-----|-------------|
| 25% | Methanol |
| 10% | Acetic acid |

Tris-buffer saline pH 7.4

| | |
|--------|-----------|
| 25 mM | Tris base |
| 140 mM | NaCl |
| 3 mM | KCl |

10% Separating gel (15 ml)

| | |
|----------|-----------------------|
| 5 ml | 30% Monomer |
| 6 ml | Distilled water |
| 3.75 ml | Separating gel buffer |
| 0.15 ml | 10% SDS |
| 0.15 ml | 10% APS |
| 0.015 ml | TEMED |

12.5% Separating gel (15ml)

| | |
|----------|------------------------------|
| 6.24 ml | 30% Monomer |
| 4.74 ml | Distilled water |
| 3.75 ml | Separating gel buffer pH 8.8 |
| 0.15 ml | 10% SDS |
| 0.15 ml | 10% APS |
| 0.015 ml | TEMED |

4% Stacking gel (5 ml)

| | |
|----------|------------------------|
| 0.668 ml | 30% Monomer |
| 3.58 ml | Distilled water |
| 0.625 ml | Stacking buffer pH 6.8 |
| 0.05 ml | 10% SDS |
| 0.05 ml | 10% APS |
| 0.005 ml | TEMED |

4% Formaldehyde (1000 ml)

| | |
|--------|----------------------------------------------------|
| 100 ml | 35-40% Formaldehyde |
| 4 g | NaH ₂ PO ₄ |
| 6.5 g | Na ₂ HPO ₄ ·H ₂ O |