

**SEPARATING GEL:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Volume (ml) of Components Required to Cast Gels of Indicated Volumes and Concentrations** | | | | | | | |
| **Components** | **Gel Volume =>** | **5 ml** | **10 ml** | **15 ml** | **20 ml** | **25 ml** | **30 ml** | **40 ml** | **50 ml** |
| **6% gel** | | | | | | | | | |
| H2O | | 2.6 | 5.3 | 7.9 | 10.6 | 13.2 | 15.9 | 21.2 | 26.5 |
| 30% acrylamide mix | | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 8.0 | 10.0 |
| Tris-Cl (1.5 M, pH 8.8) | | 1.3 | 2.5 | 3.8 | 5.0 | 6.3 | 7.5 | 10.0 | 12.5 |
| SDS (10%) | | 0.05 | 0.1 | 0.15 | 0.2 | 0.25 | 0.3 | 0.4 | 0.5 |
| 10% ammonium persulfate | | 0.05 | 0.1 | 0.15 | 0.2 | 0.25 | 0.3 | 0.4 | 0.5 |
| TEMED | | 0.004 | 0.008 | 0.012 | 0.016 | 0.02 | 0.024 | 0.032 | 0.04 |
| **8% gel** | | | | | | | | | |
| H2O | | 2.3 | 4.6 | 6.9 | 9.3 | 11.5 | 13.9 | 18.5 | 23.2 |
| 30% acrylamide mix | | 1.3 | 2.7 | 4.0 | 5.3 | 6.7 | 8.0 | 10.7 | 13.3 |
| Tris-Cl (1.5 M, pH 8.8) | | 1.3 | 2.5 | 3.8 | 5.0 | 6.3 | 7.5 | 10.0 | 12.5 |
| SDS (10%) | | 0.05 | 0.1 | 0.15 | 0.2 | 0.25 | 0.3 | 0.4 | 0.5 |
| 10% ammonium persulfate | | 0.05 | 0.1 | 0.15 | 0.2 | 0.25 | 0.3 | 0.4 | 0.5 |
| TEMED | | 0.003 | 0.006 | 0.009 | 0.012 | 0.015 | 0.018 | 0.024 | 0.03 |
| **10% gel** | | | | | | | | | |
| H2O | | 1.9 | 4.0 | 5.9 | 7.9 | 9.9 | 11.9 | 15.9 | 19.8 |
| 30% acrylamide mix | | 1.7 | 3.3 | 5.0 | 6.7 | 8.3 | 10.0 | 13.3 | 16.7 |
| Tris-Cl (1.5 M, pH 8.8) | | 1.3 | 2.5 | 3.8 | 5.0 | 6.3 | 7.5 | 10.0 | 12.5 |
| SDS (10%) | | 0.05 | 0.1 | 0.15 | 0.2 | 0.25 | 0.3 | 0.4 | 0.5 |
| 10% ammonium persulfate | | 0.05 | 0.1 | 0.15 | 0.2 | 0.25 | 0.3 | 0.4 | 0.5 |
| TEMED | | 0.002 | 0.004 | 0.006 | 0.008 | 0.01 | 0.012 | 0.016 | 0.02 |
| **12% gel** | | | | | | | | | |
| H2O | | 1.6 | 3.3 | 4.9 | 6.6 | 8.2 | 9.9 | 13.2 | 16.5 |
| 30% acrylamide mix | | 2.0 | 4.0 | 6.0 | 8.0 | 10.0 | 12.0 | 16.0 | 20.0 |
| Tris-Cl (1.5 M, pH 8.8) | | 1.3 | 2.5 | 3.8 | 5.0 | 6.3 | 7.5 | 10.0 | 12.5 |
| SDS (10%) | | 0.05 | 0.1 | 0.15 | 0.2 | 0.25 | 0.3 | 0.4 | 0.5 |
| 10% ammonium persulfate | | 0.05 | 0.1 | 0.15 | 0.2 | 0.25 | 0.3 | 0.4 | 0.5 |
| TEMED | | 0.002 | 0.004 | 0.006 | 0.008 | 0.01 | 0.012 | 0.016 | 0.02 |
| **15% gel** | | | | | | | | | |
| H2O | | 1.1 | 2.3 | 3.4 | 4.6 | 5.7 | 6.9 | 9.2 | 11.5 |
| 30% acrylamide mix | | 2.5 | 5.0 | 7.5 | 10.0 | 12.5 | 15.0 | 20.0 | 25.0 |
| Tris-Cl (1.5 M, pH 8.8) | | 1.3 | 2.5 | 3.8 | 5.0 | 6.3 | 7.5 | 10.0 | 12.5 |
| SDS (10%) | | 0.05 | 0.1 | 0.15 | 0.2 | 0.25 | 0.3 | 0.4 | 0.5 |
| 10% ammonium persulfate | | 0.05 | 0.1 | 0.15 | 0.2 | 0.25 | 0.3 | 0.4 | 0.5 |
| TEMED | | 0.002 | 0.004 | 0.006 | 0.008 | 0.01 | 0.012 | 0.016 | 0.02 |

**STACKING GEL:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Volume (ml) of Components Required to Cast Gels of Indicated Volumes** | | | | | | | |
| **Components** | **Gel Volume⇒** | **1 ml** | **2 ml** | **3 ml** | **4 ml** | **5 ml** | **6 ml** | **8 ml** | **10 ml** |
| H2O | | 0.68 | 1.4 | 2.1 | 2.7 | 3.4 | 4.1 | 5.5 | 6.8 |
| 30% acrylamide mix | | 0.17 | 0.33 | 0.5 | 0.67 | 0.83 | 1.0 | 1.3 | 1.7 |
| Tris-Cl (1.0 M, pH 6.8) | | 0.13 | 0.25 | 0.38 | 0.5 | 0.63 | 0.75 | 1.0 | 1.25 |
| SDS (10%) | | 0.01 | 0.02 | 0.03 | 0.04 | 0.05 | 0.06 | 0.08 | 0.1 |
| ammonium persulfate (10%) | | 0.01 | 0.02 | 0.03 | 0.04 | 0.05 | 0.06 | 0.08 | 0.1 |
| TEMED | | 0.001 | 0.002 | 0.003 | 0.004 | 0.005 | 0.006 | 0.008 | 0.01 |