

Materials List for:

Study of the Actin Cytoskeleton in Live Endothelial Cells Expressing GFP-Actin

Travis M. Doggett¹, Jerome W. Breslin¹

¹Department of Physiology, Louisiana State University Health Sciences Center

Correspondence to: Jerome W. Breslin at jbresl@lsuhsc.edu

URL: <https://www.jove.com/video/3187>

DOI: [doi:10.3791/3187](https://doi.org/10.3791/3187)

Materials

| Name | Company | Catalog Number | Comments |
|---|-----------------------|----------------|--------------|
| 1. Ringer 5x Stock | | | |
| Sodium Chloride | EMD Millipore | SX0420-3 | 35 g |
| Potassium Chloride | JT Baker | 3040 | 1.75 g |
| Calcium Chloride | Sigma-Aldrich | C-3881 | 1.47 g |
| Magnesium Sulfate | Sigma-Aldrich | M-9397 | 1.44 g |
| Sterile Filtered Water | N/A | N/A | Bring to 1 L |
| Sterile filter into autoclaved bottles and stores at 4°C | | | |
| 2. MOPS buffer | | | |
| MOPS | Sigma-Aldrich | M3183 | 125.6 g |
| Sterile Filtered Water | N/A | N/A | Bring to 1 L |
| Sterile filter into autoclaved bottles and stores at 4°C | | | |
| 3. Albumin Physiological Salt Solution (APSS) | | | |
| Ringer stock (5x) | N/A | N/A | 200 mL |
| Mops Buffer | N/A | N/A | 5 mL |
| Sodium Phosphate | Sigma-Aldrich | S-9638 | 0.168 g |
| Sodium Pyruvate | Sigma-Aldrich | P5280 | 0.22 g |
| EDTA sodium salt | Sigma-Aldrich | ED2SS | 0.0074 g |
| Glucose | Sigma-Aldrich | G7528 | 0.901 g |
| Albumin, Bovine | USB Corp., Affymetrix | 10856 | 10 g |
| Sterile Filtered Water | N/A | N/A | Bring to 1 L |
| Adjust pH to 7.4 at 37°C, then sterile filter into autoclaved bottles and store at 4°C. | | | |
| 4. 0.9% Saline | | | |
| Sodium Chloride | EMD Millipore | SX0420-3 | 9 g |
| Sterile Filtered Water | N/A | N/A | Bring to 1 L |
| Sterile filter into autoclaved bottles and stores at 4°C | | | |
| 5. 1.5 % Gelatin Solution | | | |
| Gelatin from porcine skin | Sigma-Aldrich | G2500 | 15 g |
| 0.9% Saline | N/A | N/A | Bring to 1 L |
| Warm the solution to 37°C to dissolve gelatin sufficiently. While still warm, sterile filter into autoclaved bottles and store at 4°C | | | |