

**Materials List for:**

# **In vitro Differentiation of Mouse Embryonic Stem (mES) Cells Using the Hanging Drop Method**

Xiang Wang<sup>1</sup>, Phillip Yang<sup>1</sup>

<sup>1</sup>Division of Cardiovascular Medicine, Stanford University

URL: <https://www.jove.com/video/825>

DOI: [doi:10.3791/825](https://doi.org/10.3791/825)

## **Materials**

| <b>Name</b>                       | <b>Type</b> | <b>Company</b>              | <b>Catalog Number</b> | <b>Comments</b> |
|-----------------------------------|-------------|-----------------------------|-----------------------|-----------------|
| DMEM                              | Reagent     | GIBCO, by Life Technologies | 11965-092             |                 |
| Fetal Bovine Serum(FBS)           | Reagent     | Hyclone                     | SH30070.03            |                 |
| L-Glutamine                       | Reagent     | GIBCO, by Life Technologies | 25030                 |                 |
| Non-Essential Amino Acids         | Reagent     | GIBCO, by Life Technologies | 11140-050             |                 |
| Penicillin / Streptomycin         | Reagent     | GIBCO, by Life Technologies | 15140-122             |                 |
| Sodium Pyruvate                   | Reagent     | GIBCO, by Life Technologies | 11360-70              |                 |
| β-mercapt-ethanol                 | Reagent     | Chemicon International      | ES-007-E              |                 |
| leukemia inhibitory factor(LIF)   | Reagent     | Chemicon International      | LIF2005               |                 |
| 96-well ultralow attachment plate | Tool        | Corning                     | 3474                  |                 |