



DMEM MEDIA PREPARATION

Materials:

Dulbecco's Modified Eagle Medium

- with L-glutamine
- with pyridoxine hydrochloride
- without sodium pyruvate
- without sodium bicarbonate

dH<sub>2</sub>O

Sodium bicarbonate (NaCO<sub>3</sub>)

Sterile cell culture (45mm neck) bottle

Millipore GP Express PLUS vacuum 0.22µm filter top 45mm neck:

150ml SCGPT01RE

500ml SCGPT05RE

To prepare 1x liquid medium:

1. Measure out 5% less sterile dH<sub>2</sub>O than desired total volume of media.
2. Add powdered media to room temp sterile dH<sub>2</sub>O with gentle stirring (do not heat).
3. Rinse out inside of package to remove all traces of powder and add to media.
4. Add 3.7g of NaCO<sub>3</sub> per liter of media.
5. Add dH<sub>2</sub>O to desired volume. Stir until dissolved (do not over mix).
6. The final pH of the media should be pH 7.4. Adjust pH of media to 0.2-0.3 below the desired working pH using 1N NaOH or 1N HCl (add slowly with stirring). The pH units will increase 0.1-0.3 upon filtration. After pH has been adjusted, keep container closed until media is filtered.
7. Sterilize immediately by using a Millipore vacuum 0.22µm filter top.
8. Store media at 4°C in the dark for up to 12 months\*.

\* the powder media is good for up to 36 months if kept at 4°C and in a dark and dry location. Once the liquid media is prepared, it is good for at least one year if stored at 4°C in the dark.