

# How to prepare 600 ml of 1X TBE buffer from 5.1 g of TBE powder

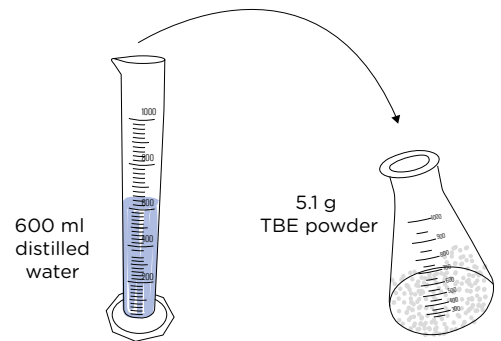
## Amount provided in Learning Lab Companion Kit



Prepare ahead of time. Dissolving TBE powder takes 10-15 minutes.

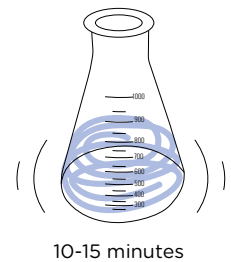
### A. Mix TBE powder and 600 ml distilled water

- Obtain a heat resistant container such as a glass Erlenmeyer flask or beaker that is at least 1 L in volume.
- Empty entire container of TBE powder (5.1 g) into the flask or beaker.
- Add 600 ml of distilled or deionized water.
- Optional: Pre-warming the water will make the TBE powder dissolve faster.



### B. Mix solution for 10-15 minutes by stirring or shaking

- Stir or intermittently shake solution for 10-15 minutes.
- Warm as necessary to help dissolve powder.
- It is normal for a small amount of powder to remain undissolved after 15 minutes. Small amounts of undissolved powder will not affect performance.



### C. Store 1X TBE buffer at room temperature in a closed container

- 1X TBE can be stored in an airtight container at room temperature for at least three months.
- Discard unused 1X TBE buffer if it becomes cloudy or if gel runs appear smeared.

