

Simple biofuel cells: the superpower of baker's yeast

Activity 1: Illustrated instructions

Showing the redox activity of baker's yeast

	<p>Suspend 1 g dry yeast in 15 ml distilled water in one beaker.</p>
	<p>Add 2 g glucose or sucrose to the yeast suspension while stirring.</p>
	<p>Add 2–3 drops of the methylene blue solution to the suspension and stir.</p>



Take a picture of the suspension as a reference.

Leave the suspension without stirring.

Note the time until a significant colour change.

Optional: repeat the activity on a heating plate at 30°C.

Make sure to use a comparable amount of methylene blue solution!

All images are courtesy of the authors