

Peroxide Testing Quick Guide

1. Pre-inspection

Do not open or disturb containers of peroxide-forming compounds showing the following:

- signs of peroxide crystal formation
- signs of leakage
- exceedance of shelf life or unknown age
- no evidence of labeling and testing

2. Testing

a. Material

EHS recommends QUANTOFIX® Peroxide 100 test strips with a range of 1–100 mg/L (ppm) H₂O₂ for semi-quantitative determination of peroxides in solution.

b. Procedure

1. Dip the test strip into the test solution for 1 second.
2. Shake off excess liquid. After the solvent has dried and evaporated, **add 1 drop of DI water for organic solvents.**
3. Wait 5 seconds.
4. Compare test field with the color scale. If hydrogen peroxide is present, the test field turns blue.
5. Take the value which matches closest with the colored test field (reading accuracy: $\pm \frac{1}{2}$ colored field of the scale). Color changes after 1 minute do not represent a positive reaction.



3. Results

- If the peroxide concentration is ≤ 100 ppm, the chemical may be used. Concentration or distillation of the chemical may be hazardous, and is prohibited for ≥ 30 ppm peroxides.
- If you would like to dispose of a peroxide-forming chemical with a peroxide concentration ≥ 20 ppm, contact your [Waste Generator Assistant](#) for guidance.

4. Storage conditions of test strips

Avoid exposing the test strips to sunlight and moisture. Refrigerate unopened test strip containers. Store opened containers in a cool (but not refrigerated), dark, dry place. Remove only as many strips as are required and close container immediately. Use or dispose by expiration date marked on container/vial. Unused strips can be disposed as normal trash waste.