

# H2O2 content measurement

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## Abstract

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## Protocol

### Step 1.

### Step 2.

The seedlings were cultured in Kimura's culture solution B until six-leaf stage.

### Step 3.

200 mg of fresh leaf tissue subjected to alkaline treatment of pH 9.5 for 0, 3, 5 days was extracted in 2.0 ml of TCA (0.1% w/v) on ice.

### Step 4.

The homogenate was then centrifuged at 12,000 rpm for 10 min.

### Step 5.

add 0.3 mL of 10 mM sodium phosphate buffer (pH 7.5).

### Step 6.

add 0.6 mL of 1 M potassium iodide to 0.3 mL of the above supernatant.

### Step 7.

the absorbance of the samples was measured at 390 nm.

### Step 8.

H2O2 content, expressed as nmol g<sup>-1</sup> fresh weight, was determined based on the standard curve generated from known concentrations of H2O2.