

## **Biosafe Systems Peroxide Test Kit Use Instructions**

### **Note:**

Instructions apply for use with Biosafe Systems peroxide 100 test strips only

### **A. To measure dilution rates 1:9000 and lower:**

Collect test solution in the sample cup provided and place test strip directly into the solution without diluting for 1 second. Remove strip and after 5 seconds, compare strip color with color chart on vial. Read table 1 to obtain the dilution rate and ppm value of the test solution.

**Table 1. Measuring dilution rates 1:9000 and lower**

<b>If the color on strip matches..<sup>±</sup></b>	<b>PPM of H<sub>2</sub>O<sub>2</sub> in the Test Solution</b>	<b>Dilution Rate of the Test Solution</b>
First Color Bar (0 ppm)	0	0
Second Color Bar (1 ppm)	1.0	1:270000
Third Color Bar (3 ppm)	3.0	1:90000
Fourth Color Bar (10 ppm)	10.0	1:27000
Fifth Color Bar (30 ppm)	30.0	1:9000
Sixth Color Bar (100 ppm)	≥100.0	≥1:2700

<sup>±</sup>If the color on the strip is between two color bars, than rates should be assumed based on color strength.

Ex. If color strength is between second and third color bar in table 1, than test solution is at 2.0 ppm or 1:135,000

### **B. To measure dilution rates between 1:100 and 1:9000:**

Using the dropper in the kit, add 1 mL of test solution into the sample cup provided and fill up to the 30 mL mark with clean water. Mix well and dip test strip for 1 second. Remove strip, and after 5 seconds, compare strip color with color chart on vial. Read table 2 to obtain the dilution rate and ppm value of the test solution.

**Table 2. Measuring dilution rates between 1:100 and 1:9000**

<b>If the color on strip matches..<sup>±</sup></b>	<b>PPM of H<sub>2</sub>O<sub>2</sub> in the Test Solution</b>	<b>Dilution Rate of the Test Solution</b>
First Color Bar (0 ppm)	0	0
Second Color Bar (1 ppm)	30.0	1:9000
Third Color Bar (3 ppm)	90.0	1:3000
Fourth Color Bar (10 ppm)	300.0	1:900
Fifth Color Bar (30 ppm)	900.0	1:300
Sixth Color Bar (100 ppm)	≥3000.0	≥1:100

<sup>±</sup>If the color on the strip is between two color bars, than rates should be assumed based on color strength.

Ex. If color strength is between second and third color bar in table 2, than test solution is at 60.0 ppm or 1:4500