

# PRODUCT PROFILE



## MONITOR™ for CHLORINE 0-10 ppm

Product Code 5155

### WHAT does this product do?

Serim® MONITORi for Chlorine 0-10 ppm strips (Product Code 5155) gives a semi-quantitative indication of the concentration of free chlorine in water.

### WHY should I use this product?

Serim MONITOR for Chlorine 0-10 ppm quickly determines whether free chlorine is present at the required concentration.

Chlorine is the most commonly used water disinfectant with applications for drinking water, waste water, swimming pool water, cooling tower water, food and beverage processing water.

Chlorine concentration is determined by the amount of organic matter in the water, the pH of the water, contact time and temperature

The concentration of chlorine used for disinfection ranges from 1 ppm to 5000 ppm, depending on the industry and federal (USDA<sup>1</sup>, EPA<sup>2</sup>, FDA<sup>3</sup>) or state regulations.

The EPA's drinking water regulation specifies an annual average maximum residual disinfectant level (MRDL) of 4 ppm chlorine.<sup>4</sup>

World Health Organization (WHO) drinking water standards state that 2-3 ppm chlorine should be added to water in order to gain a satisfactory disinfection and residual concentration.<sup>5</sup>

### WHERE do I use this product?

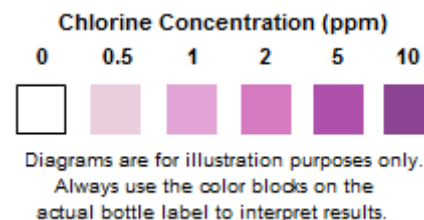
Serim MONITOR strips allow testing at various points-of-use. Review applicable regulations to determine the recommended concentration of free chlorine and sampling points for your particular application.

### HOW to use this product

Serim MONITOR strips are supplied in ready-to-use form. When placed in contact with the sample according to the directions for use (see below), the indicator pad changes color relative to the concentration of free chlorine. The strips yield a semi-quantitative indication of the free chlorine concentration with color block increments at 0, 0.5, 1, 2, 5 and 10-ppm as free chlorine.

### Ordering Information

Serim MONITOR for Chlorine 0-10 ppm  
~ Product Code 5155  
1 bottle of 100 strips



Test Method	Immersion
Test Strip Technique	Immerse indicator pad in solution and move strip back and forth vigorously for 30 seconds. Remove from solution and shake strip to remove excess sample.
Results	Compare the color of the indicator pad to color chart 15 seconds after removing from solution.

Store bottles of Serim MONITOR Test Strips at temperatures between 15°- 30°C (59°- 86°F).  
The lot number and expiration date are printed on the bottom of each bottle.

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## SERIM MONITOR for CHLORINE 0-10 ppm

Features	Benefits
Designed for use in the food processing industry	" Color blocks at levels significant to the food processing industry.
Ready-to-use strips, simple procedure	" No calculations or %drop counting+needed " No preparation or mixing of reagents
Quick, semi-quantitative results in less than 1 minute	" Simple, quick and reliable method
Simple to interpret color blocks	" Accurate and consistent results minimize variation between readers " Color of indicator pad is directly compared to color blocks on bottle label
Consistent color reactions	" Results not affected by aging during the shelf life of the product
Each bottle clearly labeled with: " Lot number " Expiration date	" Traceability of product from manufacturing to final user " Leaves no doubt as to the age or integrity of the product

### References:

1. Regulations of the Food & Drug Administration, Book 21 Code of Federal Regulations (21 CFR 173.315 and 21 CFR 178 Subpart B)
2. U.S. Department of Agriculture Regulations on Chlorine or Chlorine Compounds, Book 9 (9CFR Part 303 - Exemptions; 9 CFR.303.1.(e) (1) (i) (Meat); 9 CFR 381.10 (e) (3) (I) (E) (Poultry); 9 CFR 310.9;9 CFR 381.151 (b); 9 CFR 318.14; 9 CFR Part 318 Subpart A - General (9 CFR 318.17 and 318.23); 9 CFR 381 Subpart K
3. Regulations of the Environmental Protection Agency (EPA) on the Use of Chlorine or Chlorine Compounds in the Food Industry, Book 40 Code of Federal Regulations (40 CFR Part 180 and 40 CFR 141 and 142)
4. Environmental Protection Agency, Office of Water, Washington, D.C., EPA 832-F-00-022
5. World Health Organization (WHO), *Guidelines for drinking water quality. 3e edition*



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