PRODUCT PROFILE



MONITOR™ for CHLORINE 0-300 ppm

Product Code 5148

WHAT does this product do?

Serim® MONITORï for Chlorine 0-300 ppm strips measure free chlorine. The test yields a semi-quantitative indication that chlorine -based sanitizers are at the appropriate concentration required for use in sanitizing food and food processing equipment.

WHY should I use this product?

The maximum allowable level for no-rinse applications is 200 ppm available free chlorine, but recommended usage levels vary.¹

Using a chlorine concentration that is too low mav not thoroughly sanitize equipment or utensils. However using unnecessarily high concentration of chlorine % apply unnecessary, undesirable, potentially unhealthful or unlawful levels of sanitizer. Also matter depletes the organic concentration of chlorine available thus it needs to be monitored periodically.

WHERE do I use this product?

Review applicable regulations or the equipment manufacturers instructions to determine the appropriate sampling point.

Periodic samples may be required to determine that the chlorine potency remains at the desired level.

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 chlorine. The strips can be used as a semi-quantitative method to estimate chlorine concentrations between 0 and 300 ppm with color blocks at 25, 50, 100, 200 and \geq 300 ppm.

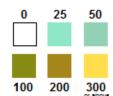
Ordering Information

Serim MONITOR for Chlorine 0-300 ppm

Product Code 51481 bottle of 100 strips



Chlorine Concentration (ppm)



Diagrams are for illustration purposes only.

Always use the color blocks on the actual bottle label to interpret results.

Test Method	Immersion
Test Strip Technique	Immerse indicator pad in solution and remove immediately . Shake strip firmly to remove excess sample.
Results	Between 15 and 30 seconds after removing strip from sample, compare the <i>color at the center</i> of the indicator pad to color chart on the bottle label.

PRODUCT PROFILE

SERIM MON	ITOR for CHLORINE 0-300 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 %frop counting+needed "No preparation or mixing of reagents
Quick, semi-quantitative results in 15 to 30 seconds.	" Simple, quick and reliable method
Simple to interpret color blocks	Accurate and consistent results minimize variation between readersColor of indicator pad is directly compared to color blocks on bottle label
Color of indicator pad is stable at high chlorine concentrations	"Indicator pad does not bleach out if chlorine concentration is greater than 300 ppm
Test results not affected by common water constituents	" Confidence that any positive result is due to chlorine or other oxidants
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:

- Basic Elements of Equipment Cleaning and Sanitizing in Food Processing and Handling Operations. FS14 Food Science and Human Nutrition
 Department, Florida Cooperative Extension Service, Institute of Food and Agricultural Sciences, University of Florida. EDIS Web site at
 http://edis.ifas.ufl.edu.
- 2. Regulations of the Food & Drug Administration, Book 21 Code of Federal Regulations (21 CFR 173.315 and 21 CFR 178 Subpart B)
- 3. 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) (l) (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
- 4. 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)



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