

# PRODUCT PROFILE



## MONITOR™ for pH 0 – 14

Product Code 5162

### WHAT does this product do?

Serim® MONITOR™ for pH 0 . 14 Test Strips yield a semi-quantitative measurement of the acidity or hydrogen ion ( $H^+$ ) concentration present in an aqueous solution.

The term pH indicates the degree of acidity or basicity of a solution ranked on a scale of 0 to 14, with pH 7 being neutral. As the concentration of  $H^+$  ions in solution increases, acidity increases and pH gets lower. When pH is above 7, the solution is basic.<sup>1</sup>

### WHY should I use this product?

The pH of water affects most chemical and biological processes, thus it is one of the most commonly tested parameters.

Water with a low pH is corrosive and can leach metals from pipes and fixtures and cause pitting of equipment and devices in contact with the water. High pH water produces a build-up of scale on pipes and fixtures and lowers the efficiency of water-using appliances and equipment.<sup>2</sup> Water pH also has a significant effect on the efficacy of detergents, disinfectants, sterilants and sanitizers.<sup>3,4</sup>

### WHERE & WHEN do I use this product?

Water quality plays an important role in many industries; medical device reprocessing, food & beverage processing, industrial boiler & cooling systems, agriculture, pool & spa, aquaculture, industrial cleaning, wastewater, environmental monitoring, etc.

Always follow the equipment and chemical manufacturer's instructions to determine the water pH requirements and frequency of testing.

### HOW to use this product

Serim MONITOR for pH 0 . 14 Test Strips are supplied in ready-to-use form. When placed in contact with the sample according to the directions for use, the indicator pads change color relative to the pH of the sample. Match the indicator pads to the color blocks on the bottle label to obtain a semi-quantitative indication of the pH.



Test Method	Immersion
Test Strip Technique	Immerse indicator pad into solution for ~1 second.
Results	Remove and immediately compare the color of the indicator pads to the color blocks on the bottle label.
<b>Note:</b> When testing weakly buffered solutions, allow the test strip to stay immersed in solution until the color of the indicator pads no longer change.	

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

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## Ordering Information:

Serim MONITOR for pH 0 - 14:

~ Product Code 5162 . sold in individual bottles containing 100 strips

## SERIM MONITOR FOR pH 0 - 14

Features	Benefits
Ready-to-use strips, simple procedure	~ No preparation or mixing of reagents ~ No calculations or % drop counting+needed
Quick, semi-quantitative results in seconds	~ Simple, quick and reliable method
Simple to interpret color blocks	~ 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

## References:

1. The Causal Analysis/Diagnosis Decision Information System. [www.epa.gov/caddis/ssr\\_ph\\_int.html](http://www.epa.gov/caddis/ssr_ph_int.html).
2. *TIR34:2007 Water for the Reprocessing of Medical Device*, Association for the Advancement of Medical Instrumentation Technical Information Report
3. *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>.
4. *CDC Guideline for Disinfection and Sterilization in Healthcare Facilities, 2008*. Rutala WA, Weber DJ, and the Healthcare Infection Control Practices Advisory Committee.



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