



# Research Corporation Product Catalog



Innovative Specialists in Dry Reagent Test Strips  
for Medical and Industrial Applications

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Serim Research Corporation develops, manufactures, and markets test strips based on Serim's dry reagent technology. Technology created and developed at our facility includes colorimetric chemistries, reagent/membrane impregnation, and test strip fabrication. In business since 1988, our fully integrated Research & Development/Manufacturing Center is located in Elkhart, Indiana in a state-of-the art, 32,630-square-foot, FDA-registered facility certified to ISO 9001 and ISO 13485 (specific for medical devices).

### **Serim Test Strips are used for:**

- 💧 Monitoring the cleaning effectiveness of automated washer-disinfectors and ultrasonic cleaners used for medical instrument reprocessing.
- 💧 Testing for the presence of disinfectants and water quality in dialysis centers worldwide
- 💧 Testing to ensure High Level Disinfectants, reused extensively in freestanding and hospital-based surgical units, remain at the effective concentration
- 💧 The presumptive identification of *Helicobacter pylori* infection in gastric biopsies
- 💧 Monitoring sanitizers and disinfectants used in food & beverage, agriculture and hospitality industries
- 💧 Monitoring water quality in multiple industries to ensure optimal use of cleaning and sanitizing chemicals.

Complete product information for all Serim products can be found at: [www.serim.com](http://www.serim.com)



## Dialysis Disinfectants and Water Quality Test Strips



Since 1988, Serim has been manufacturing unique test strips for the dialysis market. Our test strips are currently used to test disinfectant concentration and water quality in thousands of dialysis centers worldwide. Our GUARDIAN test strips are FDA cleared for dialysis and have the industry's longest opened bottle use life

| Product Code | Product  | Application   | Package Size   |
|--------------|--|---|--|
| 5100A        | GUARDIAN™<br>Residual Chlorine                         | Test for residual bleach in rinse water after disinfecting dialysis machines.   | Kit of 6 bottles<br>(100 strips each)  |
| 5100C        |  |   | Kit of 12 bottles<br>(25 strips each)  |
| 5105         | GUARDIAN™<br>Residual Peroxide                         | Test for residual concentration of peracetic acid/peroxide-based disinfectants in dialyzers after rinsing   | Kit of 6 bottles<br>(100 strips each)  |
| 5106         | GUARDIAN™<br>Peracetic Acid                            | Test for effective concentration (potency) of peracetic acid peroxide disinfectants in reprocessed dialyzers  | Kit of 6 bottles<br>(100 strips each)  |
| 5109         | GUARDIAN™ HiSENSE™<br>Test Kit                         | Test for low concentrations of chloramine and/or free chlorine (total chlorine) in post-carbon feed water used to make dialysate.   | Kit of 5 bottles<br>(20 strips each), 1 Strip Holder & 1 bottle Reagent Solution |
| 5109AP       | GUARDIAN™ HiSENSE™<br>Accessory Pack                   | Supplementary components to make 5 individual test kits when used in combination with HiSENSE Kit #5109   | 4 Strip Holders & 4 bottles Reagent Solution                                     |
| 5112         | GUARDIAN™<br>Residual Formaldehyde                     | Test for residual concentration of formaldehyde.  | Individual bottle<br>(100 strips each)   |
| 5116A        | GUARDIAN™<br>Bicarb pH II                              | Determination of pH in concentrated bicarb solution or final dialysate; (acid conc. + bicarb conc. + water)   | Individual bottle<br>(100 strips each)   |
| 5116C        | GUARDIAN™<br>Bicarb pH II Solution                     | Buffered pH solution available for a QC test for Bicarb pH II test strips if required (Optional product not required for use of Bicarb pH II product)   | Individual bottle  |
| 5119C        | GUARDIAN™<br>Blood Leak                                | Confirm the presence or absence of blood in dialysate if a blood leak alarm is activated.   | Kit of 2 bottles<br>(25 strips each)   |
| 5122         | Serim PeriScreen™                                      | Test for the presence of leukocytes (white blood cells) in peritoneal dialysate effluent, providing a presumptive indication of peritonitis.  | Individual bottle<br>(50 strips each)  |
| 5129         | GUARDIAN™<br>Water Hardness                            | Determination of low levels of hardness (as CaCO <sub>3</sub> )   | Kit of 6 bottles<br>(50 strips each)   |
| 5161         | MONITOR™ for Chlorine<br>100-750 ppm                   | Test for free chlorine in diluted bleach solution used for hard surface disinfection  | Individual bottle<br>(100 strips each)   |
| 5167         | GUARDIAN™<br>HiSENSE ULTRA 0.1™                        | Test for low concentrations of chloramine and/or free chlorine (total chlorine) in post-carbon feed water used to make dialysate. Also tests for residual bleach in rinse water after disinfecting dialysis machines. | Kit of 5 bottles<br>(100 strips each) plus<br>5 sample cups                      |
| 5167IN       | GUARDIAN™<br>HiSENSE ULTRA 0.1™<br>Individual Test Kit | Single bottle kit option for Product 5167 (see listing above)   | Kit of 1 bottle<br>(100 strips) plus<br>1 sample cup                             |
| 5209         | MONITOR™ for pH 5 –12                                  | Indicates the pH of water or aqueous solutions in the extended range of 5-12.   | Individual bottle<br>(100 strips each)   |



## Food Safety and Sanitation Test Strips

Tests for Disinfectants, Sanitizers & Water Quality



Our tests strips are used to determine sanitizer concentrations and water quality in many areas of the food production market including growers, processors, restaurants, and food service institutions. Our QSR specialty labeled products show optimal concentrations for the most common sanitizing solutions.

| Product Code | Product                               | Application   | Package Size                        |
|--------------|---------------------------------------|---|-------------------------------------|
| 5155         | Monitor™ for Chlorine 0 – 10 ppm      | Indicates free chlorine concentration in chlorine-based sanitizers  | Individual bottle (100 strips each) |
| 5148         | Monitor™ for Chlorine 0 – 300 ppm     | Indicates free chlorine concentration in chlorine-based sanitizers  | Individual bottle (100 strips each) |
| 5148Q        | Monitor™ for Chlorine 0 – 300 ppm QSR | Special label for Monitor for 0 – 300 ppm test to help identify when a solution's concentration is within or outside recommended testing range.                                   | Individual bottle (100 strips each) |
| 5161         | Monitor™ for Chlorine 100 – 750 ppm   | Indicates the concentration of free chlorine in chlorine-based sanitizers   | Individual bottle (100 strips each) |
| 5152         | Monitor™ for QAC                      | Indicates the concentration of quaternary ammonium compounds in QAC-based sanitizers  | Individual bottle (100 strips each) |
| 5152Q        | Monitor™ for QAC - QSR                | Test range is designed for QAC solutions with a 150ppm target range. Special label helps identify when a solution's concentration is within or outside recommended testing range. | Individual bottle (100 strips each) |
| 5149         | Monitor™ for Water Hardness           | Indicates the level of total hardness in water (as CaCO <sub>3</sub> )  | Individual bottle (50 strips each)  |
| 5188         | Monitor™ for Residual Glucose         | Indicates the presence of residual glucose in the final discharge water following tank truck cleaning   | Individual bottle (100 strips each) |
| 5202         | Monitor™ for Hydrogen Peroxide        | Indicates the concentration of Hydrogen Peroxide in samples of diluted laundry solutions and similar applications   | Individual bottle (100 strips each) |
| 5209         | MONITOR™ for pH 5 – 12                | Indicates the pH of water or aqueous solutions in the extended range of 5-12.   | Individual bottle (100 strips each) |

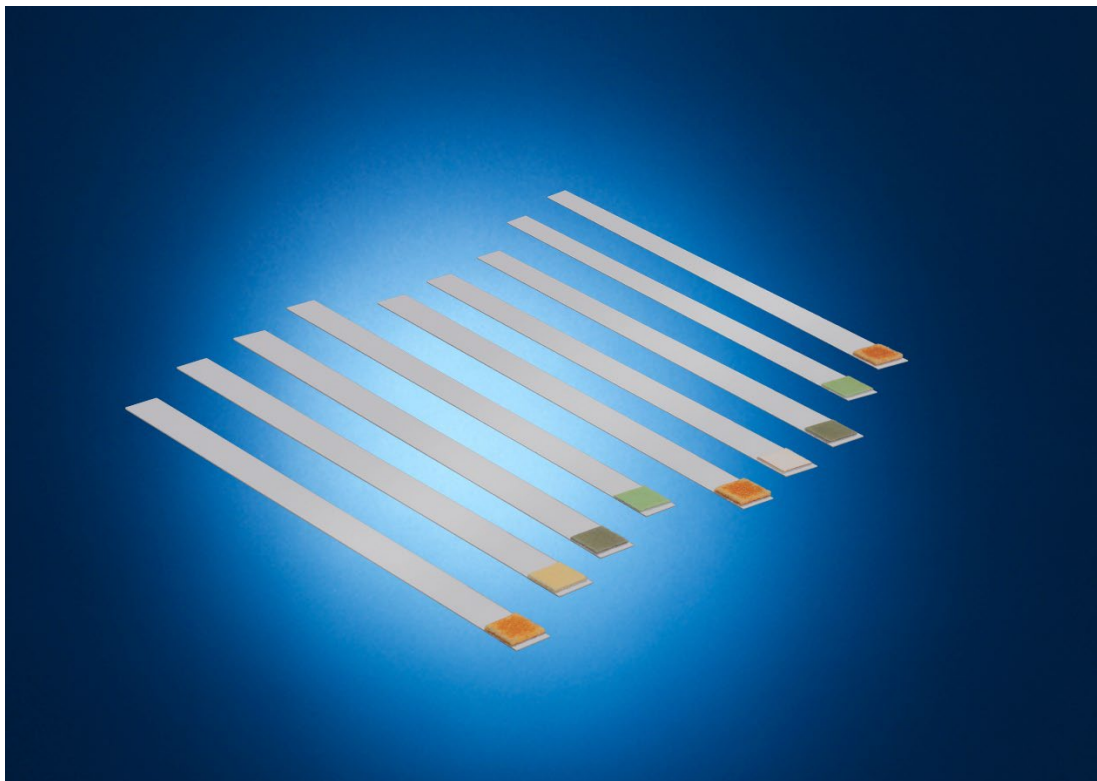


## Test Strips for High-Level Disinfectants

In the early 1990's Serim began developing and manufacturing test strips for measuring the concentrations of High-Level Disinfectant (HLD) solutions. Our DISINTEK test strips are extensively used in hospital and surgery centers to determine that solutions are above the Minimum Effective Concentration (MEC) prior to disinfecting endoscopes and other medical instruments. DISINTEK test strips are FDA-cleared and have the longest open bottle life in the HLD market.



| Product Code | Product                          | Application   | Packaging                           |
|--------------|----------------------------------|---|-------------------------------------|
| 5121         | Serim® DISINTEK™ OPA Test Strips | Test Cidex® OPA solutions to determine if solutions are above or below the MEC prior to use | Kit of 2 bottles (50 strips/bottle) |



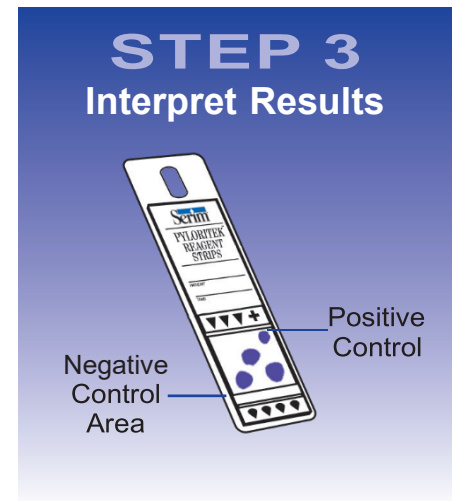
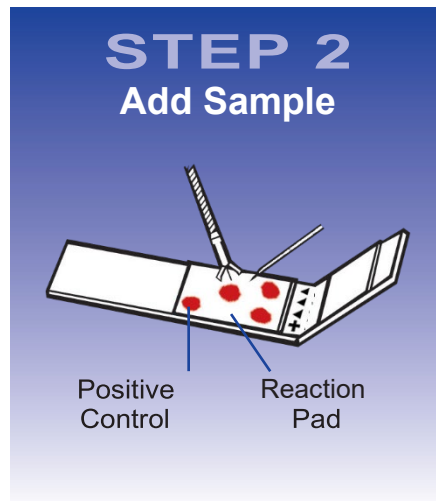
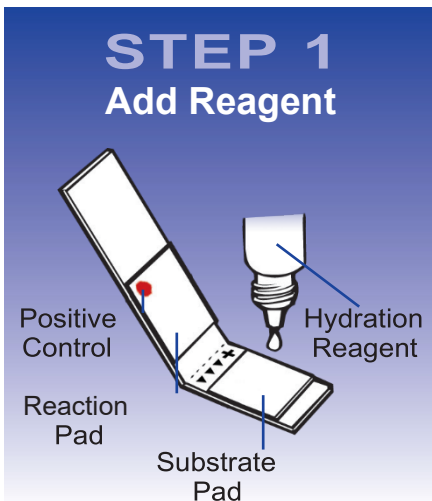


## PyloriTek for the presumptive identification of *Helicobacter pylori* infections

Our PyloriTek product is widely used in GI centers to assist in the diagnosis of *H. pylori* infections, the most common cause of gastric ulcers. Each PyloriTek test can test up to 3 biopsies from one patient, includes a built-in positive control, and provides accurate results (96% sensitivity, 97% specificity). Results are available within one hour. Other *H. pylori* testing options require a separate test for each biopsy plus an additional test for a control. This increases cost of testing and affects reimbursement rates.



| Product Code | Product                      | Application   | Packaging                                |
|--------------|------------------------------|---|--|
| 5140K        | PyloriTek® Test Kit          | Detects the presence of urease activity in gastric biopsies   | Kit with 20 tests                        |
| 5146         | PyloriTek® Positive Controls | Provides an external positive control test option that is sometimes required by some facilities and regulatory bodies | 1 bottle with 5 positive control holders |





**Sterile Processing Department  
(SPD)/CSSD Tests**

Our PINNACLE product line is used to monitor the cleaning efficacy of medical washer-disinfectors, ultrasonic cleaners, and manual cleaning processes when using enzymatic detergents. Our PINNACLE AEC test monitors all critical aspects of the cleaning process including enzyme concentration and activity, time, temperature, and mechanical action



Our MEC test is the only product on the market to *verify* the presence of active enzymes in manual cleaning solutions.

| Product Code | Product   | Application  | Packaging   |
|--------------|---|--|---|
| 5176         | PINNACLE™ Monitor for Automated Enzymatic Cleaning (AEC) – Bulk Kit | Monitors the cleaning efficacy of medical washer-disinfector units and ultrasonic cleaners using enzymatic detergents for reprocessing medical instruments | 1 bottle<br>(50 strips/bottle)<br><i>holders must be purchased separately</i> |
| 5176H        | PINNACLE™ Resin Holder  | Required to hold PINNACLE AEC test strip during cleaning cycle –<br><i>Holders are reusable</i>  | Kit (10 holders/kit)  |
| 5176SS       | PINNACLE™ Stainless Steel Holder                                    | Required to hold PINNACLE AEC test strip during cleaning cycle –<br><i>Holders are reusable</i>  | Individual holder   |
| 5179         | PINNACLE™ Monitor for Manual Enzymatic Cleaning (MEC)               | Determines the presence of active enzymes in manual bath cleaning/soaking solutions using enzymatic detergents for reprocessing medical instruments        | 1 bottle<br>(50 strips/bottle)  |





The goal of Serim Research is to produce products that safeguard human health and/or protect lives by diligently producing quality products that meet customer needs.

## **Serim Offers a Number of Customized Services Including:**

- Contract Manufacturing
- Product Evaluation
- Product Development
- Private Label Products

Complete product information, pricing, and inquiries about customized services are available upon request