

Quality Reliability Service Value

For more than 80 years, Micro Essential Laboratory's Hydrion® brand products have set the global standard for quality, integrity, reliability, and ease of use in the pH testing and food safety fields.

Pioneers in pH Testing Since 1934

Family-owned and operated, Micro Essential Laboratory Inc. is dedicated to providing the highest quality products as well as the best possible customer service. Micro Essential Laboratory has grown to become a leading global supplier of test papers and products, trusted worldwide for their exceptional quality, reliability and accuracy.

Product Categories & Industry Solutions

■ **pH Testing** Micro Essential Laboratory's Hydrion® pH test products are used worldwide in laboratories throughout the **healthcare, education, and environmental safety industries.**

■ **Sanitizer Test Kits** Chemical sanitizers are essential for the safe operation of all food service establishments, and their use is strictly regulated by the U.S. Food and Drug Administration and state and local health departments. Hydrion® Sanitizer Test Kits provide a simple, reliable, and economical way to test the strength and efficacy of the chlorine, quaternary ammonium, or iodine sanitizer solutions commonly used in the **food service industry.**

Highlights & Breakthroughs

1934 Walter Florin founds Micro Essential Laboratory in his family's Brooklyn pharmacy.

1952 MEL introduces the iconic Hydrion® test paper dispenser.

1957 MEL moves into its current location on Avenue H in Brooklyn.

1972 MEL patents its pH pencil, the first marketed device to test pH on hard surfaces.

1973 MEL introduces the Insta-Check line of instant-read pH papers.

1974 MEL enters the sanitizer testing market.

1978 MEL launches the complete MicroFine line of short-range pH papers.

1983 MEL'S pHyrion pH test paper is used to perform tests in space aboard the space shuttle.

1984 MEL introduces Spectral pH 1-14 paper, with 14 widely separated bright colors.

1989 Walter Florin's sons, Mark and Joel, take over the day-to-day operations of MEL.

2000 MEL expands its facilities to accommodate the company's growth.

2004 MEL produces the first fourth-generation-specific quaternary ammonium test kit.

2010 MEL introduces pH plastic strips with a single color match.

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Micro Essential Best Sellers

Fast, accurate, and easy to use, Micro Essential Laboratory products are the gold standard in industrial, clinical, research, and home pH measurement and food-industry sanitizer testing. Listed below are our most popular products



Hydrion (93) pH Paper 0.0-13.0

The ultimate in wide range, general purpose pH papers, providing a distinct color match at each full pH unit, from 0.0 to 13.0.



Hydrion (QT-10) Quat Test Paper 0-400 PPM

The most widely used test paper in its field, Hydrion QT-10 Test Paper measures the concentration of quaternary ammonium in food-industry sanitizer solutions, detecting solution exhaustion as well as excessive and wasteful amounts of quaternary compounds.



Hydrion (CM-240) Chlorine Dispenser 10-50-100-200 PPM

Hydrion Chlorine Test Paper provides a simple, reliable, and economical means to verify the strength of chlorine-based food-industry sanitizer solutions. The color chart's match points indicate 10-50-100-200 ppm of free available chlorine.



Hydrion (O67) Urine & Saliva pH Paper 5.5-8.0

Recommended by healthcare professionals, Hydrion O67 is commonly used to test pH levels in urine and saliva samples, often in conjunction with alkalinizing diets. The paper offers single-color matches at 0.2 to 0.3 intervals from pH 5.5 to 8.0.



Hydrion (P-12M) Mechanical pH Pencil

More responsive than a glass electrode, the Hydrion Insta-Chek Mechanical pH Pencil measures the pH of any surface to the nearest full pH value, with clear, bright single color matches at 1.0 intervals from pH 0.0 to 13.0.



Hydrion (CC-471V) Tri-Chek Buffer Calibration Set

Perfect for quick and easy pH meter calibration, the Hydrion Buffer Capsules will accurately produce 100 mL of solution at pH 4.0, 7.0, and 10.0 when mixed with distilled or de-ionized water.



Hydrion (9800) Plastic pH Strip 0-14

This Hydrion pH Test Strip provides clear, single color matches at every 1.0 interval over the entire pH scale from pH 0.0 to pH 14.0.