Indicator Strips

Version 1.0

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Overview

LabCo Scientific offers a wide range of Indicator Strips suited to your needs. They are designed to deliver fast, reliable, and easy-to-read results across a wide variety of testing needs. Suitable for conducting semi quantitative or qualitative analysis as well as monitoring pH levels. Our indicator strips are a convenient and economical solution.

SEMI QUANTITATIVE TEST STRIPS

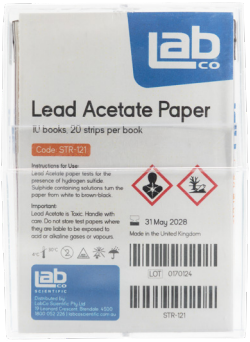
Semi Quantitative Test Strips deliver accurate, semi quantitative results for ions and various compounds, making them ideal for rapid testing. They significantly reduce lab time and costs by serving as effective first-phase tests. Portable and easy to use, they require no calibration and include built-in reagents.

These tests provide precise measurements of chemical compounds that have been calibrated with laboratory approved standards and a high accuracy colour chart.

QUALITATIVE TEST PAPERS

Qualitative Test Strips are designed to efficiently detect the presence of specific ions or compounds without measuring concentration. A single colour change indicates if the compound exceeds the detection threshold.

Easy to use, these tests offer clear, reliable results with minimal effort. Some are for specific applications and all are high quality, long-lasting and suitable for a wide range of parameters.

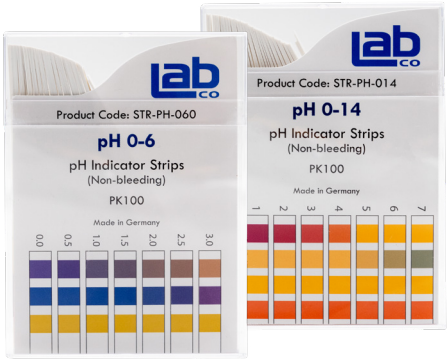


pH QUALITATIVE TEST PAPERS

Qualitative pH Test Papers, including red and blue litmus and phenolphthalein papers, are ideal for quick checks for acidity or alkalinity. Designed for simple yes or no results, they will not provide accurate pH measurement, but will change from one colour to another at a set pH value.

pH TEST STRIPS

Ideal for quick, easy and safe pH determination. The indicator dyes in the test strips are chemically bound to the test pads which prevents bleeding and therefore contamination of the sample. Suitable for a wide range of applications.



View our entire range of Indicator Strips here.

Contents

Semi Quantitative Test Strips

Semi Quantitative Test Strips are known for their accuracy and quality. They provide semi quantitative results for ions, organic compounds, inorganic compounds and match the ever demanding needs of a rapid test. Save time and reduce laboratory costs with quick results, ideal for first-phase testing.

Portable and easy to handle, these 'labs on a stick' contain all the necessary reagents and consumables for use straight out of the tube. With no calibration required, these test strips are highly complex products that can be used anywhere and easily disposed of.

These test strips have been calibrated with laboratory approved standards and have a high accuracy colour chart, ensuring precise measurements of chemical compounds.

FEATURES + BENEFITS

- Fast and easy results
- Easy to handle for on the spot results
- Wide range of tests
- Supplied in an aluminium tube with desiccant

Applications:

Some of the wide range of testing applications include:

- Agriculture
- Aquariums and Ponds
- Disinfectants
- Domestic Waste
- Drinking Water
- Education
- Electroplating Industry
- Food Technologies
- Soil
- Swimming Pools
- Textile Industry
- Water Reservoirs
- And more!

Semi Quantitative

AMMONIA

These test strips are for the rapid and reliable determination of ammonia in fresh or salt water for both laboratory and field testing environments.

Both ammonia and ammonium results from the ammonification of animal and plant protein degradation. It can result from uneaten food, decaying organic matter and when fish release it through their gills, urine and solid waste. Ammonia is damaging to life in the aquarium environment, so these tests strips can quickly and simply check the levels of ammonia. High levels of ammonia in raw surface water is normally a sign of agricultural pollution.

Ordering Information

PRODUCT CODE	DESCRIPTION	GRADUATION	COLOUR CHANGE	STRIP DIMENSIONS	PACK SIZE
STR-011-6	Ammonia 6mg/L	0-0.5-1-3-6mg/L NH_3	Yellow to green/blue	83mm x 5mm	PK25

Supplied with a clear vial.

AMMONIUM

These test strips are for the rapid and reliable determination of ammonium in solutions.

Reliable determination can be promptly carried out with all the basic reagents that accompany the test kit. Animal and plant matter biologically decays to form ammonium naturally. This can be used as an indicator to control the water supply. Ammonium compounds in ground and surface water may cause adverse pollution that can be measured by this test.

An assorted type of compost and manure can also be tested to determine the amount of ammonium nitrogen in agriculture, where high concentrations can be found. High levels of ammonium may also be found in industrial effluent.

Ordering Information

PRODUCT CODE	DESCRIPTION	GRADUATION	COLOUR CHANGE	STRIP DIMENSIONS	PACK SIZE
STR-012-400	Ammonium 400mg/L	0-10-25-50-100-200-400mg/L NH_4^+	Yellow to brown	83mm x 5mm	PK100

ASCORBIC ACID

These test strips are for the fast and reliable determination of ascorbic acid in food.

Ascorbic acid (or Vitamin C) is naturally found in many foods. It is also added to juices or fruits as a stabiliser and reducing agent. These strips can be used to determine the level of ascorbic acid in juices and fresh cut surfaces of fruit and vegetables. Ascorbic acid plays an important role in the fruit producing and food processing industry. Most vegetables naturally contain ascorbic acid (vitamin C) and can also be further supplemented to fruits and juices acting as stabilising and reducing agents.

These test strips are simple to use and are suitable to test worktops that have been used to cut fruits and vegetables as well as test fruit juices and soft drinks. They can also test the level of ascorbic acid that acts as a preservative or antioxidant that has been added to various foodstuffs.

Ordering Information

PRODUCT CODE	DESCRIPTION	GRADUATION	COLOUR CHANGE	STRIP DIMENSIONS	PACK SIZE
STR-013-2000	Ascorbic Acid 2,000mg/L	0-50-100-200-300-500-700-1,000-2,000mg/L AA	Yellow to green/blue	83mm x 5mm	PK100

Semi Quantitative

CARBONATE HARDNESS

These test strips are for the fast and reliable determination of carbonate hardness / alkalinity in water.

Carbonate hardness is a measure of the water's pH buffering capacity. If the carbonate hardness is high, addition of acids or bases will have a lower influence on the resulting pH. Carbonate Hardness can also be used for the control of water in swimming pools and aquariums.

Carbonate hardness is defined as the set number of alkaline earth ions in the water for which there is an equivalent amount of hydrogen carbonate ions and carbonate ions originating from dissolved carbonic acid present. It can also be defined as the pH buffering capacity of water. The pH of water will not change if it has a high level of carbonate hardness upon introducing acids or bases.

These test strips are simple to use in aquariums and swimming pools, ensuring the rapid control of water.

Ordering Information

PRODUCT CODE	DESCRIPTION	GRADUATION	COLOUR CHANGE	STRIP DIMENSIONS	PACK SIZE
STR-031-30D	Carbonate Hardness 30°d	0-5-10-15-20-30°d as $CaCO_3$	Yellow to blue	83mm x 5mm	PK100

CHLORINE

These test strips are for the fast and reliable determination of free chlorine in a solution.

Chlorine is widely used for the disinfection of swimming pools, water mains and reservoirs. Used correctly, harmful bacteria are safely destroyed, impurities removed and the growth of algae prevented. Regular checking of the chlorine concentration is essential to keep desired levels. Excessive chlorine can affect the taste and smell of water and can also be hazardous. The lower level indicator strips are ideal for testing residual levels in rinse water after disinfection, while the higher level indicator strips are ideal for testing the concentrate mix.

Ordering Information

PRODUCT CODE	DESCRIPTION	GRADUATION	COLOUR CHANGE	STRIP DIMENSIONS	PACK SIZE
STR-032-300	Chlorine 300mg/L	0-25-50-100-200-300mg/L Cl_2	White to yellow/brown	83mm x 5mm	PK100
STR-032-1000	Chlorine 1,000mg/L	0-50-100-250-500-1,000mg/L Cl_2	White to yellow	83mm x 5mm	PK100

CHLORIDE

These test strips detect chlorides in water samples.

High concentration of chloride ions can affect ecosystems of freshwater environments, allowing saltwater organisms to invade. The presence of chloride ions can also cause or worsen the corrosion of metals.

Ordering Information

PRODUCT CODE	DESCRIPTION	GRADUATION	COLOUR CHANGE	STRIP DIMENSIONS	PACK SIZE
STR-033-3000	Chloride 3,000mg/L	0-500-1,000-1,500-2,000-2,500-3,000mg/L Cl^-	Brown to yellow	83mm x 5mm	PK100

Semi Quantitative

CHROMATE

These test strips detect aqueous chromate ions within wastewater streams in the electroplating industry.

Chromates are extremely toxic and carcinogenic.

Ordering Information

PRODUCT CODE	DESCRIPTION	GRADUATION	COLOUR CHANGE	STRIP DIMENSIONS	PACK SIZE
STR-034-100	Chromate 100mg/L	0-3-10-30-100mg/L CrO_4^{2-}	Light pink to dark pink	83mm x 5mm	PK100

FLUORIDE

These test strips are used for monitoring fluoride levels in drinking water, as excessive fluoride may be harmful.

The solution to be tested must be at a pH of 0.5 in order for this test to be accurate. This pH adjustment can be accomplished using concentrated hydrochloric acid to acidify the test solution.

Ordering Information

PRODUCT CODE	DESCRIPTION	GRADUATION	COLOUR CHANGE	STRIP DIMENSIONS	PACK SIZE
STR-061-100	Fluoride 100mg/L	0-10-25-50-100mg/L F^-	Red to yellow	83mm x 5mm	PK100

GLUCOSE

These test strips are for the quick and easy determination of glucose in solutions.

Glucose is an important part of many foods and beverages and hence its determination is important in the respective industries. For example, the glucose content in potatoes is an important quality criterion during storage, as the glucose content increases during long storage or at high temperatures, leading to loss of quality, discolouration and unpleasant taste.

This test requires no preparation, and can very quickly determine the amount of glucose in a sample with its simple methodology.

These strips can also be used in the educational sector for food science study, urine analysis and in osmosis and diffusion experiments.

Ordering Information

PRODUCT CODE	DESCRIPTION	GRADUATION	COLOUR CHANGE	STRIP DIMENSIONS	PACK SIZE
STR-071-2000	Glucose 2,000mg/L	0-100-250-500-1,000-2,000mg/L glucose	Blue to brown	83mm x 5mm	PK100

Semi Quantitative

NITRATE

These test strips are for the rapid and reliable determination of nitrate in solutions.

Nitrate is a byproduct of biological decay from plant and animal matter. High concentrations can be found in rural, farming areas where fertilisers are regularly used. Different foods often need to be tested for their nitrate content. Nitrate is often found in preservatives or present in food due to over-fertilisation. Excessive nitrate concentrations in food can have adverse effects on food quality and consumer health. Regular nitrate testing in the food industry is important.

Additionally, farmers can use this test to control nitrogen content in soil to estimate the amount of fertiliser needed. In ponds and aquariums, nitrate is often tested instead of ammonium to control the water quality.

Ordering Information

PRODUCT CODE	DESCRIPTION	GRADUATION	COLOUR CHANGE	STRIP DIMENSIONS	PACK SIZE
STR-141-500	Nitrate 500mg/L	0-10-25-50-250-500mg/L NO_3^-	White to pink	83mm x 5mm	PK100

NITRATE/NITRITE

These test strips are for the rapid and reliable determination of nitrate/nitrite in solutions.

Nitrite is an undesired byproduct in cooling lubricants so therefore are regularly tested for nitrites. In natural and drinking water, nitrite can lead to infant mortality and dead aquatic life.

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Ordering Information

PRODUCT CODE	DESCRIPTION	GRADUATION	COLOUR CHANGE	STRIP DIMENSIONS	PACK SIZE
STR-142-500	Nitrate/Nitrite 500/25mg/L	0-10-25-50-100-250-500mg/L NO_3^- 0-0.5-1-5-10-25mg/L NO_2^-	White to pink	83mm x 5mm	PK100

NITRITE

These test strips are for the fast and reliable determination of nitrite in solution.

This test measures low levels of nitrite used mainly in environmental analysis, surface water investigations and aquaristics. This test determines the level of nitrite in boiling water and cooling water. These strips can also be used to determine the concentration of nitrite in wine and seafood.

Ordering Information

PRODUCT CODE	DESCRIPTION	GRADUATION	COLOUR CHANGE	STRIP DIMENSIONS	PACK SIZE
STR-143-25	Nitrite 25mg/L	0-0.5-1-5-10-25mg/L NO_2^-	White to pink	83mm x 5mm	PK100

Semi Quantitative

PEROXIDE

Peroxide 25

These test strips are ideal for testing low levels of peroxide in solutions.

Hydrogen peroxide is one of the most powerful oxidisers known. Its disinfectant capabilities are higher than chlorine or chlorine dioxide. It is used in many industries as a disinfectant, for example in the food and dairy industry. These peroxide test strips are used to test for residual peroxide after production equipment has been disinfected with peroxide containing agents. Additionally, the final product is often tested for peroxide with a test strip as well, because many packages are disinfected with peroxide prior to filling.

LabCo Peroxide 25 test strips are an excellent choice for testing residual peroxide in production equipment levels after disinfection.

The test strip will show a value of 0mg/L if there is no peroxide in the sample, therefore the process can move forward.

Also suitable for disinfecting and rinsing solutions e.g. food technology, laundries and swimming pool water.

Ordering Information

PRODUCT CODE	DESCRIPTION	GRADUATION	COLOUR CHANGE	STRIP DIMENSIONS	PACK SIZE
STR-161-25	Peroxide 25mg/L	0-0.5-2-5-10-25mg/L H_2O_2	White to blue	83mm x 5mm	PK100

Peroxide 100

These test strips are ideal for testing low levels of peroxide in solutions.

LabCo Peroxide 100 is useful for many applications:

- Chemical laboratories, organic solvents containing peroxide can be checked as they could explode upon heating.
- Testing for residual peroxide where high strength disinfectants are utilised for cleaning, such as the dairy industry, drinking water, pools and hot tubs.
- Suitable for disinfecting and rinsing solutions e.g. food technology, laundries and swimming pool water.

Ordering Information

PRODUCT CODE	DESCRIPTION	GRADUATION	COLOUR CHANGE	STRIP DIMENSIONS	PACK SIZE
STR-161-100	Peroxide 100mg/L	0-1-3-10-30-100mg/L H_2O_2	White to black	83mm x 5mm	PK100

Semi Quantitative

PERACETIC ACID

These test strips are for the fast and reliable determination of peracetic acid in solutions.

Peracetic acid is a powerful oxidiser and often used as a disinfectant. It is frequently used to disinfect bottles and packages in the beverage industry. After disinfection, packages are rinsed to wash out any remaining disinfectant. Peracetic acid is also used in dialysis centres to clean dialysis machines.

These test strips can check if the disinfectant has been prepared correctly and removed completely.

Ordering Information

PRODUCT CODE	DESCRIPTION	GRADUATION	COLOUR CHANGE	STRIP DIMENSIONS	PACK SIZE
STR-162-50	Peracetic Acid 50mg/L	0-5-10-20-30-50mg/L PAA	White to blue	83mm x 5mm	PK100

PHOSPHATE

These test strips allow for the quick and easy testing of phosphate in solutions.

In surface water, the presence of high phosphate concentrations may indicate domestic waste discharge, fertiliser runoff or the presence of industrial effluents or detergents. The phosphate content of surface water has direct consequences for its ability to support growth of certain organisms. Very high phosphate intake may lead to eutrophication of rivers and lakes, resulting in the death of aquatic life.

May also be used in the maintenance of cooling or heating systems for testing corrosion inhibitors.

Ordering Information

PRODUCT CODE	DESCRIPTION	GRADUATION	COLOUR CHANGE	STRIP DIMENSIONS	PACK SIZE
STR-164-500	Phosphate 500mg/L	0-3-10-25-50-100-250-500mg/L PO_4^{3-}	Yellow to dark blue	83mm x 5mm	PK100

QAC

These test strips are for the rapid and reliable determination of quaternary ammonium compounds (QAC) in solutions.

QAC-based disinfectants are frequently used for the disinfection of medical devices, surfaces and closed cooling cycles.

These test strips can be used to indicate if the concentration of the disinfectant is sufficient, ensuring an optimal disinfection process. The QAC test strips are calibrated for benzalkonium chloride.

Ordering Information

PRODUCT CODE	DESCRIPTION	GRADUATION	COLOUR CHANGE	STRIP DIMENSIONS	PACK SIZE
STR-171-400	QAC 400mg/L	0-100-200-300-400mg/L QAC	Yellow to green	83mm x 5mm	PK100

Semi Quantitative

SULPHITE

These test strips are for the rapid and reliable determination of sulphite in solutions.

In process and boiler water, sulphite is used as an oxygen scavenger. To avoid over treatment, the concentration needs to be regularly controlled. These tests are also used to control the sulphite concentration in foodstuff treated with sulphur compounds to increase shelf life. Monitoring sulphite in wine production is also important in controlling the production and quality of the wine.

Futher, these test strisp can be used for food analysis e.g. fruit juice testing, sulphurated foods (e.g. fresh and dried fruits), shell fish, crustaceans and minced meat products which use sulphur based products to prolong shelf life.

Ordering Information

PRODUCT CODE	DESCRIPTION	GRADUATION	COLOUR CHANGE	STRIP DIMENSIONS	PACK SIZE
STR-192-500	Sulphite 500mg/L	0-10-25-50-100-250-500mg/L SO_3^{2-}	White to dark pink	83mm x 5mm	PK100

WATER HARDNESS

These test strips are for the quick and easy determination of water hardness.

Water hardness depends mainly on the amount of calcium and magnesium salts within the water. The total sum of these salts determines the actual water hardness. Water is often simply classified as "soft" or "hard" water.

The following values apply to these terms:

- Below 50mg/L - very soft water
- 50 to 120mg/L - soft water
- 120 to 240mg/L - medium hard water
- 240 to 360mg/L - hard water
- Above 360mg/L - very hard water

Water hardness plays an important role in everyday life and a wide variety of industries and applications. Hard water can adversely affect taste and appearance of food. Hard water inhibits the watering of soap, so more detergent has to be used in hard water to achieve the same cleaning results as in soft water. Additionally, hard water may cause calcification and can damage machinery, appliances, pipes or heating units.

In many industries, water hardness is an important parameter in process control and has to be monitored constantly. Some examples of industries include the textile industry, dyeing factories, large scale laundries, water works, fish farming and aquaculture.

Ordering Information

PRODUCT CODE	DESCRIPTION	GRADUATION	COLOUR CHANGE	STRIP DIMENSIONS	PACK SIZE
STR-231-500	Water Hardness 500mg/L	0-50-125-250-500mg/L as $CaCO_3$	Yellow to maroon	83mm x 5mm	PK100

Qualitative Test Papers

Our range of qualitative tests are ideal for the qualitative determination of specific ions and chemical compounds. If merely the presence of a compound is required without the detail of the concentration, then these tests will perform a single colour change if that compound exceeds the detection amount.

These tests are highly efficient, require minimal effort and can provide a definitive qualitative answer if a sample contains compounds of interest. Some of these tests are for a specific use only.

Our tests are high quality, have a long life and are available for a comprehensive range of parameters.

FEATURES + BENEFITS

- Fast and easy results
- Easy to handle for on the spot results
- Ideal for qualitative determination of specific ions and chemical compounds

Applications:

- Humidity in air
- Drinking water
- Education
- Industrial Industries
- And more!

COBALT CHLORIDE

Cobalt Chloride paper measures the presence of relative humidity in the atmosphere.

The paper is directly exposed to the atmosphere and turns from blue to pink upon contact with relative humidity greater than 2%. Must be dried at 40˚C - 50˚C before use to give a blue appearance.

Ordering Information

PRODUCT CODE	DESCRIPTION	LIMIT OF SENSITIVITY	COLOUR CHANGE	PACK SIZE
STR-035-2	Cobalt Chloride >2%	2% RH	Blue to pale pink	10 books of 20 strips

LEAD ACETATE

Lead Acetate paper measures the presence of hydrogen sulphide.

Hydrogen sulphide forms while processing raw oil. Low concentrations can be toxic, hence the requirement to check at certain points of the process.

Can also be used to determine levels of sulphide in drinking water, well water or ground water.

Ordering Information

PRODUCT CODE	DESCRIPTION	LIMIT OF SENSITIVITY	COLOUR CHANGE	PACK SIZE
STR-121	Lead Acetate	1 drop of solution containing 5mg/L sulphide (S^{2-})	White to brown/black	10 books of 20 strips

Qualitative Test Papers

STARCH & POTASSIUM IODIDE

Starch & Potassium Iodide paper measures the presence of oxidising agents such as nitrite, free chlorine, iodine and peroxide. Also used to monitor diazotization reactions.

Oxidising agents react with potassium iodide to produce elemental iodine which in turn reacts with the starch to form a blue-violet colour.

Ordering Information

PRODUCT CODE	DESCRIPTION	LIMIT OF SENSITIVITY	COLOUR CHANGE	PACK SIZE
STR-191	Starch & Potassium Iodide	1mg/L NO_2^- / 1mg/L Cl^1	White to blue/violet	10 books of 20 strips

pH Qualitative Test Papers

Our Qualitative pH Test Papers are ideal for routine management of acid or alkaline reactions in industry.

These papers do not require a colour chart as their purpose is to demonstrate qualitative analysis in a simple 'yes' or 'no' manner. They will not provide accurate pH measurement, but will change from one colour to another at a set pH value.

Applications:

- pH paper for educational and industrial applications

LITMUS BLUE

Ordering Information

PRODUCT CODE	DESCRIPTION	pH RANGE	PACK SIZE
STR-122-BLUE	pH Litmus Blue	pH < 7 red / > 7 blue	10 books of 20 strips

LITMUS RED

Ordering Information

PRODUCT CODE	DESCRIPTION	pH RANGE	PACK SIZE
STR-122-RED	pH Litmus Red	pH < 7 red / > 7 blue	10 books of 20 strips

PHENOLPHTHALEIN

Ordering Information

PRODUCT CODE	DESCRIPTION	pH RANGE	PACK SIZE
STR-163-PHEN	pH Phenolphthalein	pH < 8.4 white / pH > 9.6 red	10 books of 20 strips

pH Test Strips

LabCo pH Indicator Strips enable fast and reliable determination of pH values in water-based liquids and stand out for their particularly user–friendly handling - simply dip into the sample and read the result.

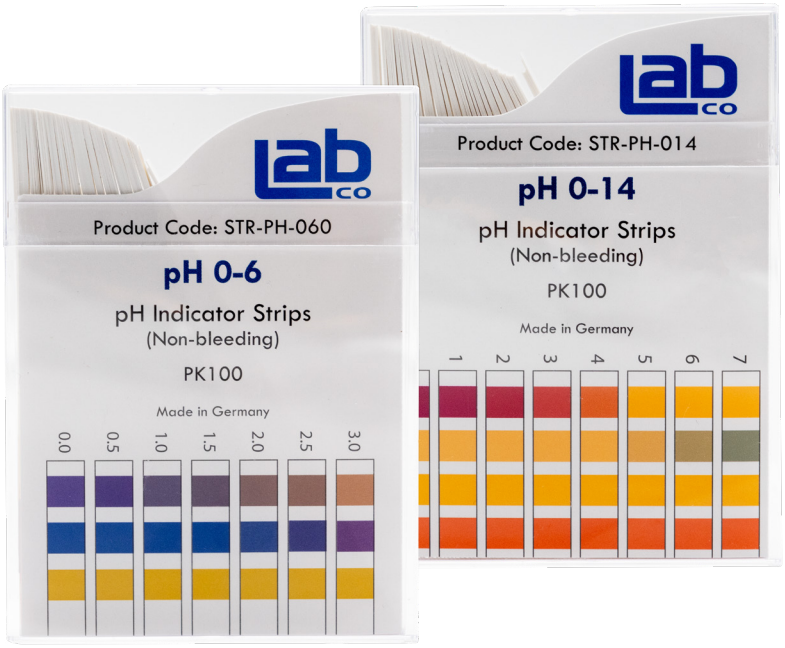
The brilliant colour scale provided ensures precise colour matching, making pH determination intuitive and accurate. The extra long, hydrophobic plastic handle reliably protects the user from contact with hazardous or aggressive samples and allows measurements even in deep or hard to reach vessels, ensuring maximum safety and flexibility in everyday work.

Thanks to patented technology, the indicator remains bound to the test field, so that no bleeding into the sample can occur and contamination of the sample is reliably prevented.

Ideal for use in laboratories, schools, forensic science and a wide range of industrial industries. LabCo pH Indicator Strips are the standard method for simple, rapid and cost–effective pH determination.

FEATURES + BENEFITS

- Non-bleeding design
- Extra long plastic handle
- Brilliant colour scale
- Made in Germany



Ordering Information

PRODUCT CODE	RANGE	GRADUATIONS	STRIP DIMENSIONS	PACK SIZE
STR-PH-060	pH 0 - 6	0, 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0	85mm x 6mm	PK100
STR-PH-014	pH 0 - 14	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14	85mm x 6mm	PK100

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See the full product range online.

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