

Taylor's Phosphate Test Kit

INTRODUCTION

Have you ever wondered where phosphates come from and how they end up in a pool or spa? What about the effect they can have on the water itself?

Phosphates come from the natural environment (lawn runoff and leaves) and man-made sources (municipal water supply lines treated with an orthophosphate corrosion inhibitor, the chemical breakdown of sweat and urine, from bathing suits washed with certain laundry detergents, and even from some pool chemicals like tile cleaner). If phosphate levels are not kept in check, the algae that feed on phosphate can quickly multiply, turning sparkling-clean pool water into a murky mess that no one wants to swim in. Additionally, the algae will consume the sanitizer in the water, making the problem worse.

And just where do these algae spores come from? They are carried along in the wind, the rain, or in the water used to fill the pool (or spa). Surrounded by all of their favorite things—water, light, heat, and nutrients such as carbon, nitrogen, and **phosphate**—the spores begin to bloom and multiply. To prevent these opportunistic, resilient, one-celled algae invaders from thriving, you have to remove phosphate, **one of their primary food sources**.

How do you know if algae are the culprit? Some of the signs to look for are green-tinted/cloudy water, slippery/slimy surfaces, colored patches floating in the water or attaching to surfaces, quick consumption of sanitizer.

Manufacturers of phosphate removers claim algae can begin to thrive above 125 parts per billion of orthophosphate, the form of phosphate that results from the breakdown of more complex phosphorous compounds. Taylor's **phosphate test kit (K-1106)** measures this elementary "free" form and is able to detect phosphate levels from 0–6000 parts per billion.



Test for phosphate once a week using the color-matching method in Taylor's K-1106.

USER BENEFITS

- Instruction/Color Cards are **laminated to protect the printed-color standards** from water and chemicals.
- Custom-molded, durable plastic case provides **safe storage**.
- Test kit comes complete with all necessary reagents and equipment.
- Proven chemistries are based on *Standard Methods for the Examination of Water and Wastewater*, APHA, Washington, DC, and/or *American Society for Testing and Materials*, ASTM, Philadelphia, PA. Some methods use proprietary chemistry developed by Taylor Technologies.

ALSO AVAILABLE

- A wide array of single- and multiparameter kits featuring color-matching and/or drop-count tests.
- **Taylor's TTI® Colorimeter (M-2000)**; test more than a dozen parameters (**including phosphate**) commonly encountered in pool/spa settings and transfer results to a PC database.
- Test kits K-1582 and K-9065 that test for quat/polyquats, which are agents for **algae control**.
- Testing supplies and kit replacement parts (e.g., burets, flasks, test tubes, and test cells).
- Toll-free technical assistance at **800-TEST KIT**.

