

Nitrate Test Kits

HI3874

Nitrate is found in low quantities in domestic wastewater, but can reach higher concentration (up to 30 mg/L as nitrogen) in the outflow of nitrifying biological treatment plants. Excessive amounts can contribute to methaemoglobinemia: infant death and adult illness. In order to prevent this, a 10 mg/L limit (as nitrogen) has been imposed on drinking water.

HI38050

for Soil and Irrigation Water

The Hanna HI38050 nitrate test kit for soil and irrigation water makes it possible to determine the need for nitrogen fertilization. It also obtains the best crop response and avoids over-fertilization.

Nitrate is reduced to nitrite in the presence of cadmium. The nitrite thus produced reacts with the reagent to yield an orange compound. The amount of color developed is proportional to the concentration of nitrate present in the aqueous sample.

The Hanna nitrate-nitrogen test can be performed the whole year round, but testing is particularly recommended during spring and late spring, when rainfall and temperature-related bursts of microbiological activity often have great influence on the availability of nitrate-nitrogen.

HI38050 Nitrate Checker® Disc Test Kit



HI3873 Nitrite

Nitrite Test Kits

HI3873

The HI3873 Hanna test kit determines the nitrite concentration in water via color comparison cube. Nitrites react with chromotropic acid reagent to form a pink tint in the sample. The amount of color developed is proportional to the concentration of nitrite present in the aqueous sample.

Method	Range	Smallest Increment	Chemical Method	# Tests
HI3874	Nitrate (as NO₃⁻-N)			
colorimetric	0-50 mg/L (ppm)	10 mg/L (ppm)	cadmium reduction	100
HI38050	Nitrate (as NO₃⁻-N) in irrigation water and soil			
checker disc	water: 0-50 mg/L (ppm) soil: 0-50 mg/L (ppm)	water: 1 mg/L (ppm) soil: 2 mg/L (ppm)	cadmium reduction	100 100
HI3873	Nitrite (as NO₂⁻-N)			
colorimetric	0,0-1,0 mg/L (ppm)	0,2 mg/L (ppm)	chromotropic acid	100

Ordering Information

HI3874 test kit comes with 100 packets nitrate reagent, glass cuvette and color comparison cube.
HI38050 test kit comes with 200 packets nitrogen reagent, checker disc, glass vials with caps (2), 10 g calcium sulfate, demineralizer bottle with filter cap for 12 L, soil sieve, 50 mL plastic test tube with screw cap, large funnel, 100 paper filter discs, brush, 50 mL calibrated vessels (2), 2 g sample cup, 3 mL plastic pipette and spoons (2).
HI3873 test kit comes with 100 packets nitrite reagent, glass cuvette and color comparison cube.

See a list of chemical test kit reagents beginning on page 1,52