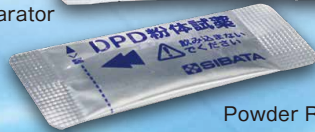


Chlorine Comparator DPD Method

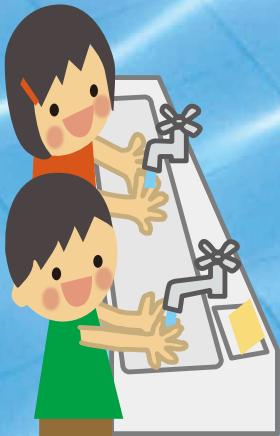


Chlorine Comparator
DPD Method



Powder Reagent

**Simplified
Method**



Management of Tap Water in Japan

Sibata Product	Item	Normal Period	During Emergencies	Remarks
Chlorine Comparator DPD Method	Free residual chlorine	0.1 mg/L min.	0.2 mg/L min.	(1) Daily measurements at the faucet end (2) If there are multiple water supply systems, then measure at the end of each system.
Above-mentioned + potassium iodide	Combined residual chlorine	0.4 mg/L min.	1.5 mg/L min.	(3) When the concentration of free residual chlorine is 0.1 mg/L or less, measure the combined residual chlorine, and confirm conformity with the standards. (4) During emergencies: This refers to when a gastrointestinal infectious disease is spreading within the building, or when water is supplied after construction work or a large-scale water outage.

Reference: Tokyo Metropolitan Government website

Management of Swimming Pools in Japan

Sibata Product	Item	Criteria	Measurement Frequency (for swimming)	Measurement Frequency (for schools)
Chlorine Comparator, DPD Method Simple Pack, Free Residual Chlorine	Free residual chlorine	0.4 mg/L min., 1.0 mg/L max.	Every day, at least once before noon and at least twice after noon	Every day before use and every hour during use
Simple Pack, Chlorine Dioxide	Chlorine dioxide	0.1 mg/L min., 0.4 mg/L max.	Every day, at least once before noon and at least twice after noon	—
Simple Pack, pH5	pH	5.8 to 8.6	Once per month	Every day before use

Reference: Japan's Ministry of Health, Labour and Welfare, Health Policy Bureau Notification No. 0528003:
Swimming Pool Hygiene Standards
(Revised Edition) School Environmental Hygiene Management Manual



Powder Reagent, DPD Method (for 100 tests)



Powder Reagent, DPD Method (for 500 tests)



Potassium Iodide, with Dispensing Spoon



● Chlorine Comparator DPD Method

Item Name	Item Code
Chlorine Comparator, DPD Method	080540-520
Chlorine Comparator, DPD Method with reagent for 100 tests	080540-521
Powder Reagent, DPD Method (for 100 tests)	080540-501
Powder Reagent, DPD Method (for 500 tests)	080540-503
Potassium Iodide, with Dispensing Spoon 20g	080520-0058

Measurement Procedure

● Fill two rectangular test tubes with sample water until they are 80% full and place them into the left and right test tube pockets.

● Pure 10 mL of sample water into the remaining rectangular test tube.

● Add the DPD powder reagent and mix.

● Place the sample solution in the center hole for color comparison measurement.

● Finding the Combined Residual Chlorine

● After measuring the free residual chlorine, add one spoonful (0.1 g to 0.5 g) of potassium iodide (separately available) using the dispensing spoon provided, and ensure that it dissolves.

● Leave the solution for approximately 2 minutes. Then place it into the center hole of the chlorine comparator to allow comparison with the colors on the standard color plate. Find the concentration of total residual chlorine from the applicable standard color.

Find the combined residual chlorine concentration by using the calculation formula.



● Water Tester "Simple Pack"®

Item Name	Item Code
Simple Pack, Free Residual Chlorine (48 included)	080520-306
(Total) Residual Chlorine (48 included)	080520-307
Hydrogen Ion Concentration, pH 5 (48 included)	080520-302
Chlorine Dioxide (48 included)	080520-325

Measurement Procedure

- While holding the nozzle with your fingers, twist the knob to break it off.
- Press the pump with your fingers to drive any air out of the pack.
- Place the nozzle in the sample liquid. Slowly lessen the pressure of your fingers, allowing the sample liquid to enter into the pump.
- Holding the nozzle, shake and mix the sample liquid and the coloring agent inside the pump. Compare the color with the colors in the standard color chart (colorimetry) to determine the concentration.

Specifications, and appearance described in this document are based on information as of April 10, 2015. They are subject to change without notice for improvement of the product.

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