

DC Water Test

Hexavalent Chromium
Ultra-Low Range Narrow Span
(PN: 82004)



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Manual

1. Application

The DG Water Test PN: 82004 is a colorimetric water test kit designed to provide real-time indication and quantification of hexavalent chromium in water.

2. Components of the Test Kit

- a. 30 Sample Vials, PN: 82004-1030
- b. One Developing Solution Bottle, PN: 82004-2000
- c. 30 Disposable Pipettes, PN: 82004-3030
- d. One Color Comparator, PN: 82004-6000

3. Components of the Test Kit Refill

- a. 30 Sample Vials, PN: 82004-1030
- b. One Developing Solution Bottle, PN: 82004-2000
- c. 30 Disposable Pipettes, PN: 82004-3030

To Reorder: PN: 82004-5000

4. Specifications

4.1. Overall Specification

A. Sample Vial

- a. Weight: 0.75g (0.027oz)
- b. Dimensions: 3.3cm (1.3in), Φ : 10mm (0.4" in)
- c. Operating temperature: 4°C to 60°C (39°F to 140°F)
- d. Minimum detectable limit: 0.025ppm in 5 minutes
- e. Detection range with color comparator: 0.025 to 1.2ppm
- f. Color change: Colorless to pink
- g. Storage temperature: 4°C to 25°C, (39°F to 77°F)
- h. Shelf life: 1 year

B. Developing Solution

- a. Weight: 8.5g (0.3oz)
- b. Dimensions: 5.9cm (2.3in), Φ : 1.8cm (0.7" in)

C. Color Comparator

- a. Weight: 28g (1oz)
- b. Dimensions: 10.9cm (4.3in) x 10.5cm (4.1in) x 0.7cm (0.3in)
- c. Range: 0.025ppm to 1.2ppm
- d. Increments (ppm): 0.025, 0.05, 0.1, 0.15, 0.2, 0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 0.55, 0.6, 0.65, 0.7, 0.75, 0.8, 0.85, 0.9, 0.95, 1.0, 1.2.

D. Disposable Pipette

- a. Weight: 0.75g (0.027oz)
- b. Dimensions: 15cm (6in), Φ : 1.3cm (0.5" in)
- c. Capacity: 0.5ml

4.2. Cross interferences

None Known

5. Operating Instructions

- a. Use gloves and protective glasses when handling Hexavalent chromium.

- b. Ensure that packaging pouch is intact.
- c. Open packaging pouch by tearing off the top part from one of side notches.
- d. Remove one sample vial from packaging pouch.
- e. Open sample vial cap and add 0.4ml of water sample using the disposable pipette (Figure 1).
- f. Add three drops of developing solution to sample vial (Figure 2).
- g. Firmly close sample vial cap and shake (Figure 3).
- h. Wait 5 minutes with occasional shaking for complete color development.

NOTE: Reading the result before 5 minutes or waiting much longer than 5 minutes may lead to negative or positive results

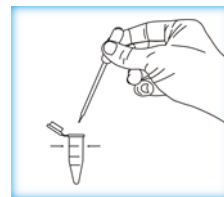


Figure 1

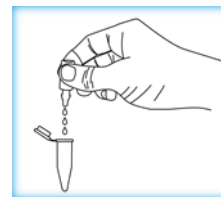


Figure 2



Figure 3

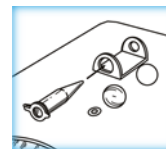


Figure 4

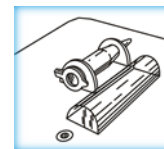


Figure 5



Figure 6

- i. Use the color comparator (Figure 6) to determine the concentration of hydrazine in the water sample
 - Insert the sample vial into the vial holder as shown in Figures 4 and 5.
 - Turn the bottom color wheel to match colors. The color formed in the sample vial is directly proportional to the concentration of hydrazine in the water sample.
 - To compensate for any dark substance or dirt in the water sample, turn the top gray scale wheel to achieve better color match.