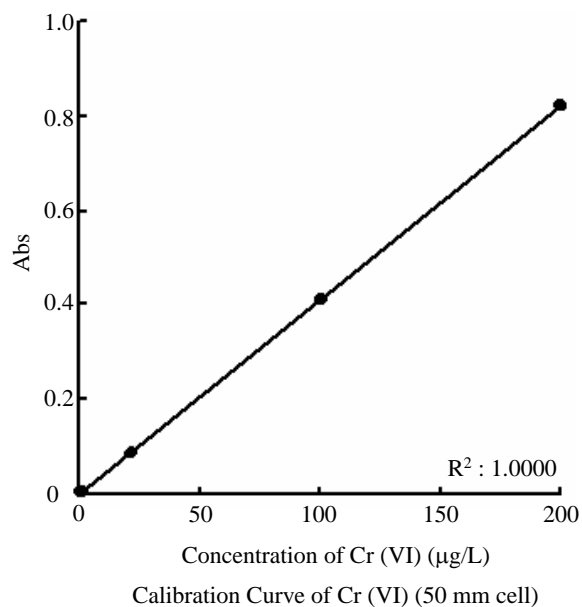
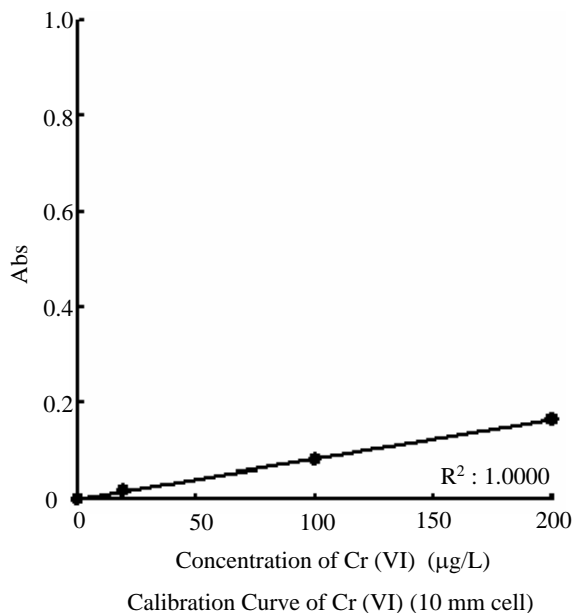


Analysis of Cr (VI) by EN 15205 (Using 10 mm cell, 50 mm cell)

Cr (VI) analysis (EN 15205)

Method		Preparation
Analyte : Cr (VI) Measurement method: Diphenylcarbazide absorption photometric method (Calibration curve was prepared with reference to EN15205.)		Sample solution 50 mL ← 60.9 % Orthophosphoric acid 1 mL ← 1 % Diphenylcarbazide solution 1 mL Mix ← Let stand for 10 min Solution for measurement *Refer to Reagent Preparation for Analysis of Cr (VI) (EN15205) (UV070019-02) for the preparation of the reagent. * Refer to EN15205 for the effects of the interfering substances and the detail of the reagent for this method.
Instrument Conditions		
INSTRUMENT : U-3900H	WORKING CURVE	
BANDPASS : 2 nm	WAVELENGTH : 540 nm	
PATH LENGTH : 10 mm , 50 mm		



KEY WORDS

Cr (VI), Calibration Curve, Environmental Chemistry, Environment, Coloring Reagent, 10mm Cell, 50mm Cell, Hexavalent Chromium, UV, U-1900, U-2900, U-2910, U-3900, U-3900H, U-1800, U-2800, U-3010, U-3310

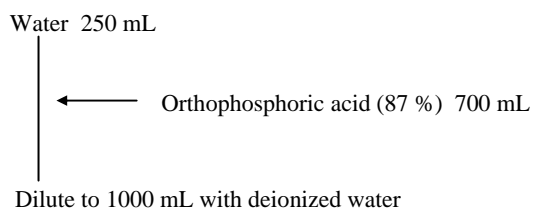
Spectrophotometer UV

Sheet No. UV070019-01

Reagent preparation for analysis of Cr (VI) (EN 15205)

[Reagent Preparation Method]

- 60.9 % orthophosphoric acid



- 1 % diphenyl carbazide solution

Dissolve 1.0 g of 1,5-diphenyl carbazide in 100 mL of acetone.

Add 1 drop of ice-cold acetic acid to facilitate the dissolution.

* Transfer the solution into a dark-colored bottle and store in the refrigerator.

(This solution is stable for at least 4 weeks.)

KEY WORDS

Cr (VI), Calibration Curve, Environmental Chemistry, Environment, Coloring Reagent, 10 mm Cell, 50 mm Cell, Hexavalent Chromium, UV, U-1900, U-2900, U-2910, U-3900, U-3900H, U-1800, U-2800, U-3010, U-3310

Spectrophotometer UV

Sheet No. UV070019-02