

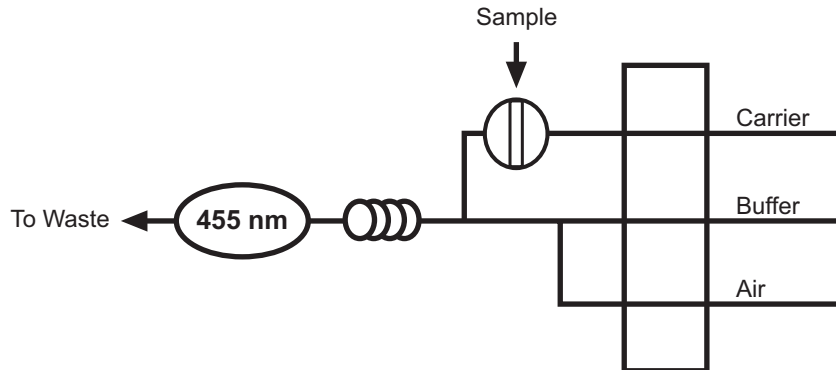
Summary: A known volume of sample is injected into a segmented reagent stream containing a sodium phosphate/potassium phosphate buffer that normalizes the pH of the sample. The buffered sample flows to a photometric detector where the absorbance is measured at 455 nm. Color measurements are performed with respect to a platinum-cobalt reference. The unit of measure for this method is Pt-Co Color Units (CU).

Interferences: Filter turbid samples prior to analysis. The color of water is very pH dependent, and significant variances in pH may interfere with the ability to make accurate comparisons between samples. This method uses a buffer to reduce this effect, but the pH of each sample should be recorded prior to analysis and reported with the color measurement.

Performance Specifications:	Range:	5.0–25 CU
	Throughput:	40 samples/hour
	Precision:	
	5.0 CU	≤3% RSD
	25 CU	≤1% RSD
	Method Detection Limit (MDL):	0.6 CU

Chemicals:	Brij®-35, 30% w/v (OI Analytical Part #A21-0110-33)	Hydrochloric Acid, concentrated, HCl
	Cobalt Chloride Hexahydrate, CoCl ₂ •6H ₂ O	Potassium Hexachloroplatinate(IV), K ₂ PtCl ₆
		Potassium Phosphate Monobasic, KH ₂ PO ₄
		Sodium Phosphate Dibasic, Na ₂ HPO ₄

Basic Flow Diagram:



Selected Reference: *Standard Methods for the Examination of Water and Wastewater*, 18th ed.; American Public Health Association: Washington, D.C., 1989; Method 2120B.

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