

# Certificate of Analysis

**Color Standard, APHA / Hazen (Platinum-Cobalt), Color = 500**

**Lot Number:** 1403J07

**Product Number:** 2230

**Manufacture Date:** MAR 19, 2024

**Expiration Date:** MAR 2026

Absorbance values are certified traceable to NG-type glass filters calibrated against NIST Standard Reference Material 930e. Spectrophotometer wavelength accuracy is confirmed by measurement of two wavelengths from the spectrophotometer Deuterium lamp. These peak wavelengths are absolute physical constants.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Hydrochloric Acid	7647-01-0	ACS
Potassium Hexachloroplatinate (IV)	16921-30-5	Reagent
Cobalt (II) Chloride Hexahydrate	7791-13-1	ACS

Test	Specification	Result	NIST SRM#
Absorbance at 430 nm	0.110-0.120 AU/cm	0.112 AU/cm	930
Absorbance at 455 nm	0.1300-0.1450 AU/cm	0.1395 AU/cm	930
Absorbance at 480 nm	0.1050-0.1200 AU/cm	0.1135 AU/cm	930
Absorbance at 510 nm	0.055-0.065 AU/cm	0.058 AU/cm	930
Appearance	Yellow-brown liquid	Passed	

Specification	Reference
Color Standard, Stock	APHA (2120 B)
Standard Chloroplatinate Solution	EPA (110.2)
Platinum-Cobalt Stock Solution	ASTM (D 1209)
Standard Chloroplatinate Solution	EPA (110.1)
APHA No. 500 Platinum-Cobalt Standard	ACS (N/A)
Platinum-Cobalt TS	USP (N/A)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
2230-16	500 mL amber glass	24 months
2230-200	200 mL amber glass	24 months

**Recommended Storage:** 15°C - 30°C (59°F - 86°F)



Heidi J Green (03/19/2024)

Operations Manager

This document is designed to comply with ISO Guide 31 "Reference Materials --  
Contents of Certificates and Labels."

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