RICCA CHEMICAL COMPANY®

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Certificate of Analysis

Ferroin Indicator, 0.025 Molar Phenanthroline Ferrous Sulfate Complex

Lot Number: 26081833 **Product Number:** 3140

Manufacture Date: AUG 28, 2026
Expiration Date: AUG 2028

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
1,10-Phenanthroline Monohydrate	5144-89-8	ACS
Ferrous Sulfate Heptahydrate	7782-63-0	ACS

Test	Specification	Result
Appearance	Dark red liquid	Passed
Suitability for Use	Very Pale Green (oxidized) - Reddish-Brown (reduced)	Passed

Specification	Reference
Phenanthroline Ferrous Sulfate Indicator Solution	ASTM (D 1252 A)
Phenanthroline Ferrous Sulfate Indicator Solution	ASTM (D 1252 B)
Ferroin Indicator Solution	APHA (5220 B)
Ferroin Indicator Solution (undiluted)	APHA (5220 C)
Phenanthroline-ferrous sulfate (Ferroin) indicator solution	TAPPI (T 235 cm-85)
“Ferroin” indicator	TAPPI (T 610 sp-97)
Phenanthroline-ferrous sulfate	TAPPI (T 203 om-93)
Phenanthroline Ferrous Sulfate (Ferroin) Indicator Solution	EPA (410.3)
Phenanthroline Ferrous Sulfate (Ferroin) Indicator Solution	EPA (410.1)
Phenanthroline Ferrous Sulfate (Ferroin) Indicator Solution	EPA (410.2)
1,10-Phenanthroline Ferrous Sulfate Indicator	ASTM (E 200)
Ferroin Indicator, 0.025 M Reagent Solution	ACS (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)
3140-16	500 mL amber glass	24 months

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

William Creese (08/28/2026)
Plant Manager

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