Certificate of Analysis

155 Hidden Ravines Dr
Powell, OH 43065
USA

Tel: 800.858.9682 . 740.881.5501
Fax: 740.881.5989

www.gfschemicals.com

Product name: SENSITITRE, 0.5 MCFARLAND

Item #: 8317

Lot #: 24024680

Certified Values:

Specifications	Status	Results
Optical Density at 625nm (0.160-0.180)	Pass	0.1654
NIST Traceability	Report	SRM 2031
Calibration lot	Report	24022651
Sensititre Nephelometer Calibration Date	Report	Oct 15, 2024
Polymer slurry lot number	Report	24011986
Date of manufacture--Bulk solution	Report	Sept 12, 2025
Verified to middle green led on nephelometer disp	Pass	Passes
Expiration Date 9 months from date of manufacture	Report	June 2026
Fill Volume for E1041	Report	>5mL

Comments

CoA #: COA-119239

Expiration date: June 2026

Certificate Created By: Allison Sandy

Print Date: September 15, 2025

Certified by: Aron Becza - Quality Assurance Manager

Aron Becza

Traceability:
This material was processed under a quality management system that is registered to ISO 9001 2015. The equipment used in the testing of materials is NIST traceable. In cases where NIST traceability is not possible equipment manufactured recommendations and /or industry best practices are followed.

The following tests are performed under an A2LA accredited ISO/IEC 17025 management system:
- UV/VIS Spectrophotometer testing is performed according to ASTM method E169-16
- Turbidity according to ASTM methods D6855-17 and ASTM D7315-17
- Conductivity according to ASTM method D1125-14
- pH according to ASTM method D1293-18
- Karl Fischer titration according to ASTM methods E203-16 and E1064-16

Samples for testing are obtained using GFS procedure GFSW-LAB-PPG-0022.

Testing is performed in a laboratory temperature of 22 ℃ +/- 2 ℃.

Turbidity Instrument – A formazin calibrated turbidity meter was used in the formulation and testing of the standards for each specific instrument design. If no specific instrument is listed in the Certified Values Table then an HF Micro 100 was used to obtain the results.

Certified Values only valid when In-Spec Background Lot is used.

UV/VIS Spectrophotometer Information – Certified absorbance readings obtained on Shimadzu UV-2600 spectrophotometer that is verified yearly with NIST SMRs 2031, 2034 and Hg Lamp.

Measurement Uncertainty:
The uncertainty of the certified values is stated below. These values are to be input into the equation that follows to determine the acceptable
tolerance:
- If absorbance is $0.0 < x < 0.5$ AU: then uncertainty is +/- 0.005 AU
- If absorbance is $0.5 < x < 1.5$ AU: then uncertainty is +/- 0.008 AU
- If absorbance is $1.5 < x < 4$ AU: then uncertainty is +/- 0.012 AU

Tolerance Statement

Tolerance = Uncertainty + your instrument's stated photometric accuracy
The difference between the mean measured absorbance value and the certified value provided on this certificate should not exceed the sum
of the uncertainty value and your instruments stated photometric accuracy if the instrument is performing properly.

Specifications:

Hazardous Information: Consult SDS for information on this product.

Storage Information: This standard should be stored at room temperature before and after opening. At no time should it be frozen or stored in extreme heat. These conditions can cause instability of the materials and lead to incorrect results.

Usage Information: This material is intended for use as a calibration or validation standard. For primary standards, pour necessary amounts of material into a sample container and run the sample per instrument manufacturer's user manual. Dispose of used nonhazardous materials. Do not pour back into bottle. These materials are not for dilution and do not require inversion or mixing to use unless otherwise stated on the bottle. Do not shake the standards as this can introduce greater error in the results. For secondary standards, place the vial in the instrument and run the sample per the manufacturer's user manual.

Not for direct use in food, cosmetics, finished pharmaceuticals or drug products. Supplier is not responsible for compliance with FDA Current Good Manufacturing Practices (cGMP), including without limitation for those finished drug products in 21 CFR Parts 210 and 211. Consult warranty limitations at www.gfschemicals.com

24024680

SAFETY SUMMARY

SUBSTANCE/PREPARATION IDENTIFICATION

Material name: AMCO CLEAR® TURBIDITY STANDARDS and IN-SPEC® UV and VIS STANDARDS

HAZARDS IDENTIFICATION

Potential environmental effects: Not expected to be harmful to aquatic organisms.

Potential health effects: Health injuries are not known or expected under normal use.

HANDLING CONTROLS

Storage: Do not allow material to freeze. Use care in handling/storage. Store in accordance with local/regional/national/international regulation.

EMERGENCY RESPONSE

Extinguishing media: Material itself is not flammable, use extinguishing agent suitable for type of surrounding fire.

Containment: Containment of this material should not be necessary.

Clean Up: Wipe up with absorbent material (e.g. cloth, fleece). Never return spills in original container.

TECHNICAL PAPERWORK

For full SDS please visit www.gfschemicals.com

AMCOClear IN-SPEC

- Visit www.amcoclear.com for Traceability Certificate

- Visit www.in-spec.com for Scanning Procedures specific to your standard