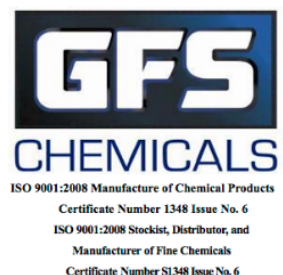


Certificate of Analysis

Product Name: AMCO CLEAR TURBIDITY STANDARD,
10 NTU YSI PN 607200

Item #: 8171

Lot #: 18106411



Certified Values:

Specifications (Max Limits or as Specified)	Pass/Fail	Numerical Results
Turbidity on YSI 6136 Sensor	Pass	12.7 NTU
Turbidity on YSI EXO Turbidity Sensor	Pass	12.4 FNU
Absorbance at 455nm (100mm pathlength)	Pass	0.1290
Lot Number of Baseline Material	Pass	17512522

Comments

Certificate Create By: Stephen Bailey

Certifying Officer: Stephen Bailey

Best by: June 4, 2019

Signature on File

Signature on File

Not for direct use in food, cosmetics, finished pharmaceuticals or drug products. Supplier is not responsible for compliance with FDA Current Good Manufacturing Practice (cGMP) requirements, including without limitation those for finished drug products in 21 C.F.R. Parts 210 and 211. Consult warranty limitations at www.gfschemicals.com/statics/documents/aboutus/termsandconditions.html
For resale by GFS authorized distributors only.

Tolerance Statement

The acceptance tolerance of the certified values is stated below.

- If the material is packaged as a primary standard (in HDPE bottle): +/- 1% of certified value
- If the material is packaged as a secondary standard (sealed in a glass vial): +/- 10% of certified value when instrument calibration is performed with Amco Clear primary standards

The difference between the mean measured turbidity value and the certified value provided on this certificate should not exceed the tolerance value.

Traceability

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.

UV/Vis Spectrophotometer Information - Certified absorbance reading obtained on Shimadzu UV-2600 spectrophotometer that is verified yearly with NIST SRM's 2031, 2034, and Hg Lamp.

Samples for testing are obtained using GFS method ACS-001-028.

Testing is performed in a laboratory with a temperature of 22° C +/- 2

Certified absorbance value is only valid when Amco Clear 0.0 NTU is used for the instrument baseline.

Specifications

Hazardous Information - Please consult MSDS 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 material and lead to incorrect results.

Usage information - This material is intended for use as a calibration or validation standard. For primary standards pour necessary amount of material into a sample container and run the sample per the instrument manufacturers 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 manufacturers user manual.

Calculations Used for Certified Results

$$CertifiedValue(x) = \frac{\sum x_i}{n}$$

$$(x) = mean$$

$$x_i = single measurement result$$

$$n = total number of measurements$$

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