

Certificate of Analysis

Benedict's Reagent, Qualitative, for detection of reducing sugars

Lot Number: 4402E20

Product Number: 930

Manufacture Date: FEB 07, 2024

Expiration Date: JAN 2026

For In Vitro Diagnostic Use. May be suitable for other laboratory applications.

For qualitative detection of reducing sugars in urine or other samples, add 5 mL of this reagent and 8 drops of sample to a test tube. Place in a boiling water bath for 5 minutes and allow to cool to room temperature (do not immerse in cold water to hasten cooling). The color observed depends on approximate glucose concentration as follows: 0 g/dL - Blue; 0.25 g/dL - Green; 0.5 g/dL - Green with yellow precipitate; 1 g/dL - Yellow to olive; 1.5 g/dL - Brown; 2+ g/dL - Orange to Red. It is recommended that known standards be run at the same time as samples if semiquantitative results are to be obtained.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Citrate Dihydrate	6132-04-3	USP
Sodium Carbonate	497-19-8	ACS
Copper Sulfate Pentahydrate	7758-99-8	ACS

Test	Specification	Result
Appearance	Blue liquid	Passed

Specification	Reference
Benedict's 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)
930-1	4 L natural poly	24 months
930-16	500 mL natural poly	24 months

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

Paul Brandon (02/07/2024)

Production Manager

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

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