

Certificate of Analysis

Semen Diluting Fluid, Bicarbonate-Formalin Diluting Fluid for Sperm Count

Lot Number: 1402E13**Product Number:** 6710**Manufacture Date:** FEB 26, 2024**Expiration Date:** AUG 2025

For In Vitro Diagnostic Use. Certified suitable for diluting semen for sperm count. Details for methodology for sperm count can be found in standard clinical laboratory references. Following is a typical procedure: In a white cell diluting pipet, draw semen to the 0.5 mark. Draw the Semen Diluting Fluid to the 11 mark (1:20 dilution). Let the mixture stand until the mucus dissolves, then shake thoroughly. Expel four drops and then fill a standard blood counting chamber. Count the sperm in the finely ruled center area of the chamber (1 mm²). The number of spermatozoa per milliliter of semen is obtained by multiplying the total count by 200,000. Normal values are from 60 to 120 million/milliliter. The lower limit of normal is typically set at 20 million/mL.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Bicarbonate	144-55-8	ACS
Formaldehyde	50-00-0	ACS
Methyl Alcohol	67-56-1	ACS

Test	Specification	Result
Appearance	Colorless liquid	Passed

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)
6710-16	500 mL natural poly	18 months

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

Heidi J Green (02/26/2024)

Operations Manager

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

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