



RICCA CHEMICAL COMPANY

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Quality products, service
and value since 1975

Lab



March 12, 1998

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CERTIFICATION

PRODUCT:
CAT. NO.:

Turk Blood Diluting Fluid - for White Blood Cell (Leukocyte) Count
8850

This is to certify that all lots of this product contain 0.01% (w/v) certified Gentian Violet (Crystal Violet) Stain Powder, CAS No. 548-62-9, and 1% (v/v) A.C.S. Reagent Grade Glacial Acetic Acid (CH_3COOH), CAS No. 64-19-7, in high purity Water, CAS No. 7732-18-5, which exceeds the A.C.S. Reagent Grade Specifications. At the time of manufacturing, the Water used also meets or exceeds the specifications for A.S.T.M. Type I Water and U.S.P. Purified Water. All lots of this product are formulated only with Gentian Violet Stain Powder tested and certified by the BIOLOGICAL STAIN COMMISSION, INC., University of Rochester Medical Center, Rochester, N.Y. The RICCA CHEMICAL COMPANY manufacturing facility is registered with and periodically inspected by the FDA. All lots of this product have an expiration date of 24 months from the date of manufacturing for unopened containers stored at controlled room temperature (59° to 86°F , 15° to 30°C). The lot number and expiration date are printed on all product labeling. This product is for In-Vitro Diagnostic Use. This solution is intended for dilution and staining of White Blood Cells (Leukocytes) in manual White Cell (Leukocyte) counting procedures. Nonnucleated Red Blood Cells (Erythrocytes) should not be present since they should be hemolyzed by the Acetic Acid in this diluting fluid. Occasionally ghost outlines of Red Blood Cells may be seen. Nucleated Red Blood Cells typically are not hemolyzed and are counted together with the White Blood Cells. If required, Hayem Blood Diluting Fluid (RICCA CHEMICAL COMPANY Cat. No. 3500) for Red Blood Cell (Erythrocyte) Count and Rees & Ecker Blood Diluting Fluid (RICCA CHEMICAL COMPANY Cat. No. 6600) for Platelet Count are also available. Many other clinical laboratory stains and test solutions are also available. Refer to the latest RICCA CHEMICAL COMPANY catalog for details.

White Blood Cell (Leukocyte) Manual Counting Procedure: 1. Well mixed anticoagulated blood (EDTA is suggested) or blood from a free-flowing capillary puncture should be used. 2. A White Blood Cell (Leukocyte) diluting pipet for enumeration of Leukocytes is used in the manual counting procedure. Attach aspirator tube to pipet. Draw blood to first line (0.5) on pipet avoiding air bubbles. If necessary, adjust meniscus to line with pipet in a vertical position and wipe excess blood from outside surface of pipet with a piece of dry gauze without touching the opening of the capillary. Do not permit any of the blood to run out of the pipet while filling the pipet. 3. Immediately immerse tip of pipet into a fresh small tube of this diluting fluid and steadily draw fluid to line (11) above bulb while rotating pipet on its long axis to ensure thorough mixing of the blood and diluting fluid. Gradually bring the pipet to a vertical position so that the measurement at the top of the pipet is accurate. Do not insert the pipet directly into the bottle of this diluting fluid. Fluid should completely fill bulb of pipet with no air bubbles. If the diluting fluid has been permitted to go above the 11 mark, or if air bubbles are present in the pipet, discard the mixture and begin again with a clean, dry pipet. Do not permit the capillary tip of the pipet to come out of the diluting fluid while drawing up the dilution fluid. When blood is drawn to the 0.5 mark and diluted with this diluting fluid to the 11 mark, the resulting dilution ratio is 1:20 (0.5:10). (One volume of this diluting fluid remains in the stem of the pipet and does not dilute the blood.) 4. Remove pipet from this diluting fluid and hold in a horizontal position. Place one finger over tip of pipet and remove tubing from opposite end. 5. Immediately mix the contents of the pipet thoroughly by placing the thumb over one end and the first finger over the other end and shaking by hand or with a mechanical shaker for 3-5 minutes. 6. Allow several drops to leave the pipet and immediately fill both sides of the hemacytometer counting chamber and count cells according to directions with the hemacytometer. Note: After use, pipets should be rinsed thoroughly with water and dried with drying agent such as Ether or Acetone.

Only serialized, certified, "Class A" volumetric glassware is used for the preparation of this product. All "Class A" volumetric glassware is calibrated before first use and recalibrated periodically in accordance with A.S.T.M. Standard E 542 and N.I.S.T. Calibration Procedure Number NBSIR 74-461. All approved volumetric glassware used is certified to comply with the "Class A" tolerance requirements of A.S.T.M. Standard E 288 and to Federal specifications in N.I.S.T. Circular Number 434. All weighings are performed with METTLER or SARTORIUS electronic top-loading balances readable to 0.1 gram. All electronic balances are recalibrated and documented at the beginning of each work day by Quality Assurance personnel using Class S Weights (mass standards) which are certified traceable to the National Institute of Standards and Technology (N.I.S.T.) national standard of mass. The Class S Weights used are certified traceable to N.I.S.T. Certificate Number 731/243669. All products are prepared according to Master Records that assure manufacture according to validated methods. Detailed batch production records document traceability of all raw materials used and provide an exact production history for every lot manufactured.

All chemical raw materials used to manufacture this product are listed on the United States Environmental Protection Agency (EPA) "Toxic Substances Control Act Chemical Substance Inventory" (TSCA Inventory). This product does not contain any chemical substance which harms public health and the environment by destroying ozone in the upper atmosphere.

Our mission at RICCA CHEMICAL COMPANY is to provide consistently high quality testing solutions, courteous and efficient service, and prompt shipment at a fair and affordable price. Our Quality Commitment stresses the role and responsibility of each employee towards quality and results in continuous improvements in our products, processes, and service. We appreciate your business and provide an unconditional guarantee for all of our products. If at any time you are dissatisfied with any of our products, please contact us and we will do whatever is reasonable to obtain your satisfaction. Customer satisfaction is our highest priority and is the reason for our existence and success.

Respectfully submitted,

Dennis D. McClure

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Vice-President, Technical Services
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