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## Aerospray hematology pro manual

ELITe InGenius Brochure: Hematology Laboratory Workflow Solution The Aerospray Pro Slide Stainer/Cytocentrifuge simplifies the staining process for blood and body fluids, enhancing clarity through rapid stain modes like Wright-Giemsa, MGG, or custom settings. This automated system eliminates cross-contamination, reduces maintenance, and ensures laboratory compliance. Key benefits include: \* Consistent, reliable, and standardized staining \* Reduces labor costs and aids in lowering the cost per slide \* Low maintenance required with simple cleaning cycles Specifications: \* Loading capacity: 12-30 slides \* Throughput: Approximately 540 slides per hour \* Weight: 16.3 kg / 35.9 lbs \* Dimensions: 22 in x 10 in x 21 in To learn more, request a demonstration, or get an official quote, visit ELITechGroup's website and click on the "Downloads" section. Section 1: Introduction The manual provides instructions for installing, operating, and maintaining the Aerospray Hematology Stat Stainer/Cytocentrifuge. It is crucial to read the manual carefully before setup and first use of the instrument. Given article text here ELITechGroup reagents must be used exclusively with diluents B - Thiazin Stain (Blue) as specified in the instructions for ELITechGroup concentrated reagents. The REF numbers for this stainer begin with one of the C ranges and are outlined on Page 13 of the manual. Strainer to prevent nozzle parts from entering the drain. ## Setup and Preparation for Operation 1.2 Instrument Description The Strainer comes with a Preventive Maintenance Kit, which includes: - Volume Test Tubes (small tube) - Nozzle Cleaning Tubes (large Stand tube) - Tubes (small tube) for collecting reagents during testing ## Touchscreen and User Interface Users can control all instrument functions using the interactive touchscreen display - Table 8: Front Panel/Main Screen Function Keys - Button Name Description - Standby/Ready: Indicates instrument power is ON (blue), or in standby mode (amber) - System Setup: Allows users to modify software settings, see Section 3.1 for details ## Maintenance Function Keys - Table 9: System Setup Keys - Button Name Description - Set Date/Time: Sets the date and time - Restore Defaults: Restores programming to default settings - Login: Enters login sequence for authorized users - Logout: Logs authorized users out ## Connection and Operation 1.2 Instrument Setup - Connecting the Drain Tube and Waste Container: - Insert the waste tube connector into the rear panel receptacle until you hear a click - Adjust the tube length to less than 1.8 m (72 in.) - NOTE: Ensure the waste tube has no loops or kinks, and is as straight and as short as possible To ensure accurate detection of reagent levels, a reagent tray is used. \*\*Setup and Preparation for Operation\*\* 2.1 Instrument Setup: A barcode reader can be connected to the stainer for easy tracking of reagents and specimen information. If not installed, information can be entered manually (Section 3.2). 2.2 Preparing the Stainer for Operation: Priming procedures are necessary to replace alcohol with correct reagents in each line prior to use. The Clean Cycle purges reagent lines and cleans the carousel. Reagent Level Detect monitors levels and alerts when running low or waste containers are full (when using level detect AC-182). 2.2 Preparing the Stainer for Operation (continued): Zeroing the Reagent Level Sensors must be done at initial setup, when moved, or if the level detect is not reporting correctly. If zeroing does not correct the issue, recalibrate the function (Section 7.3). \*\*Controlling and Customizing Stainer Functions\*\* 3.1 System Setup Menu: Many software settings can be controlled from this menu, including creating, editing, and deleting stain programs, cytocentrifuge programs, tracking reagent information... To crete a stain program, go to System Setup and press Stain Programs, then Add. Enter the desired name on the keypad and press Enter. The display will return to the Stain Programming Menu. To edit, rename or adjust stain programs, simply adjust the settings as needed and press Save. The Administrator account controls access to the system by adding and editing user accounts. Up to 50 user accounts can be created. To create a user account, go to System Setup, enter the Administrator password, and press Enter. Then, press Users to reveal the Manage Users menu, select Enable Global Login, and enter a numeric passcode for the user account. The Administrator can manage user access to the instrument from the Manage Users screen. Users can log in by pressing Login, entering the correct passcode, and pressing Enter. The display will then advance to the Main screen, and the instrument will be ready for programming and staining. Reagent information, including reference number, expiration date, lot number, and installation time, can be tracked by entering this data. The user language can be changed from System Setup by selecting the desired language from the list and pressing OK. The date and time can also be set from System Setup by selecting a 12-hour or 24-hour clock. System logs can be exported to a Flash Drive by plugging it into the right USB port, going to System Setup, pressing System Log, and then Export. The log files are exported as a CSV file that can be used in spreadsheet software programs. The QC/Maintenance function is also available from System Setup. Enable QC/Maintenance Tracking Options To activate Stain Slide Tracking, go to System Setup > Enable Stain Slide Tracking. System Setup Menu - Enables Cyto Slide Tracking for cytocentrifuge mode - Allows manual entry of slide information using the keypad (limited to 24 characters) Restore Defaults Caution: Restoring defaults removes all personal settings and user names/passes. Enabling QC/Maintenance Tracking - Select Enable Stain Slide Tracking - Note: This changes the Start button on Main menu to "Load Slides" Recording Specimen and Reagent Information - Scanning slides with Barcode Reader - From System Setup select QC/Maintenance Tracking > Enable Stain Slide Tracking - Scanning reagent bottles with Barcode Reader - From System Setup select QC/Maintenance Tracking > Enable Reagent Tracking for each desired reagent (A, B, C, D) - Manually entering reagent information - Press Reagents from System Setup menu or press reagent status icon on Main menu to reveal Reagent Information menu \*\*Operating the Stainer\*\* Before starting, ensure slides are not chipped or cracked, as they may break during staining and require cleaning. \*\*Loading the Carousel\*\* 1. Load slides with labels facing outward and specimens oriented clockwise. 2. Place blank slides (blocking slides) in empty positions to prevent overspray and over-staining. 3. If using a stain program, select it from the display or press "Programs" to create a new one. \*\*Monitoring Reagent and Waste Levels\*\* 1. Check reagent levels on the display and by inspecting bottles. 2. Do not mix residual reagent from used bottles with new ones, as this can cause contamination. \*\*Preventive Maintenance\*\* 1. Regularly check reagent levels and expiration dates. 2. Perform monthly maintenance: \* Disassemble and clean nozzles (Section 6.1). \* Disinfect reused reagent bottles (Section 5.5). SECTION 5: PREVENTIVE MAINTENANCE AND SAFETY If an instrument is inactive for over a week, long-term storage procedures should be performed to prevent nozzle clogging when the machine is restarted. This involves cleaning and removing nozzles, replacing fuses with identical types, and powering off the instrument. Cleaning the Instrument and Carousels ----- All cleaning procedures must be done in a well-ventilated area by authorized personnel wearing protective gear. The exterior of the instrument should be cleaned with 70-100% ethanol or methanol. The carousel and lid should also be cleaned with the same solution. Decontaminating the Instrument ----- Before returning the instrument for service, all outer surfaces must be decontaminated. This is crucial as any parts that come into contact with biological specimens or hazardous materials are considered potentially infectious. A disinfection declaration must be completed by the operating authority to avoid rejection or quarantine by customs authorities. Preparing a Disposal Container ----- When cleaning and decontaminating, cover the lid latch and locking-pin holes with waterproof tape to protect the interior (Figure 12). Spray treatments should be repeated every 2-3 minutes for a total of 20 minutes. The instrument's surfaces must not be allowed to dry. Shipping the Instrument or Carousels ----- Before returning the instrument to ELITechGroup, it is crucial to disinfect the instrument or carousels. A Hazard-Free Certification form must be completed by the operating authority, otherwise, the distributor or service center may reject the instrument, and customs authorities may hold it. SECTION 6: NOZZLE MAINTENANCE AND PERFORMANCE ----- Nozzle Cleaning requires the Nozzle Maintenance Kit and prepared Cleaning Solution (diluted REF: SS-029C). Always wear protective gear and eye protection when using the solution. Dispose of used solution properly. If the compression screw is stubborn, use light penetrating oil and a 5/8-in. For Nozzle Reassembly, hold your thumb or a nozzle strainer over the tube end to keep parts inside. Discard cleaning solution according to statutes. Inspect nozzle parts for any damage. For Manual Priming, remove the carousel from the bowl and the connected nozzle. Install the priming tool adapter into the holder, then clear the nozzle orifice with the brush found in the kit. If necessary, perform the Nozzle Cleaning procedure (Section 6.1). If the problem persists, replace the nozzle. Contact ELITechGroup if the issue continues. To Prepare the Maintenance Kit for future use, empty contents into a stainer bowl, rinse tubes with water, and put them back in their original place. The Slide Pattern Test can differentiate poor staining results from sample preparation problems or nozzle obstructions. Perform this test when the Hub Pattern test produces normal results but staining is inadequate. Contact your ELITechGroup representative for assistance. WARNING! Do not open the instrument or attempt internal repairs due to electrical shock hazard. Refer servicing to qualified personnel. Contact your dealer or ELITechGroup Service for further assistance. Common issues include: \* No power when switching on: check facility outlet and power cord connection. \* Reagent leaks may indicate an internal problem (see Section 7.3). \* Error messages on the screen: + Lid Not Shut: verify lid is fully closed and latched. + Carousel position sensor issue: stop the cycle and investigate further. If problem persists contact dealer or ELITechGroup for assistance. Problem Solution Abnormal staining on entire surface of all slides Check carousel capacity and fixative setting. Ensure blood smears are dry. Increase fixation setting to High. Call ELITechGroup for slide quality info. Refractile artifacts in erythrocytes Use Aerofix (SS-048 or SS-148) fixative Refer to Section 7.2. Ensure correct stainer operation sequence. Contact dealer or ELITechGroup if problem recurs. Abnormal staining results Smear separation or tearing Check alcohol fixation phase. Remove excess fluid from carousel chamber. Lower relative humidity to below 60 percent. Procedure: Pump prepared solution through affected reagent lines and wait 20 minutes. Pump disinfectant solution and let sit 20 minutes. Instrument malfunction Reagent level detect system errors Check for no reagent detection during calibration. Contact dealer or ELITechGroup for assistance. Calibrate the reagent level detection system by inserting bottles into tray positions enabled in the level detection system. Ensure all reagent bottles are removed and press Start to initiate calibration. Note that vibrations or bumps can affect accuracy. Calibration requires unopened, full 500 mL reagent bottles in correct tray positions due to varying densities. If you experience instrument malfunctions, refer to Section 7 for troubleshooting. To calibrate the touchscreen, press and hold Standby/Ready for five seconds, then press the center of a target that appears on the screen. Repeat this process until all five targets have been pressed. For service information or assistance with your Aerospray Stainer/Cytocentrifuge, contact ELITechGroup's Service Department in the United States by phone or reach out to authorized dealers for international support. The Cytopro Cytocentrifuge allows rapid sedimentation of specimen cells onto microscope slides. The rotor can hold up to eight sample chamber assemblies with absorbent pads and glass microscope slides. Critical reagent components include Hematology Reagent A Rinse, SS-135/149C Eosin Stain Concentrate, and SS-148 Aerofix Fixative Concentrate. Refer to Appendix A for detailed information on these reagents and their chemical compositions. Additionally, consult Appendix B for Risk and Safety Phrases associated with the use of certain reagents. Warning: Handling of certain chemicals requires caution. The following reagents are associated with the warning signal word: - SS-049C and SS-049C-EU - Basofix Eosin Stain, or SS-135/149C - Eosin Stain concentrate after dilution as directed. These products may cause harm if swallowed. Additionally, SS-148, SS-148-EU - Aerofix Additive for Methanol carries similar warnings, including: - H302 Harmful if swallowed - P264 Wash hands thoroughly after handling - P270 Do not eat, drink or smoke when using this product - IF SWALLOWED: Call a POISON CENTER, a doctor if you feel unwell The Aerospray Nozzle Cleaning Solution carries the following warnings: - H319 Causes serious eye irritation - H314 Causes severe burns and eye damage - P280 Wear protective gloves, protective clothing, eye protection - P303+P361+P353 Use protective equipment. Collect wear eye protection. Please note that only replacement parts supplied by ELITechGroup should be used in this instrument, as using non-approved parts may affect performance and safety features.

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