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| Purpose | To provide instructions for performing qualitative Color mono agglutination test, by Sure-Vue. |
| Policy | Quality Control for Sure Vue Color Mono Test is required at least once in 24 hours of testing. |

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| |  |  | | --- | --- | | Workplace Safety | ***Refer to the safety manual for general safety requirements.*** | | All laboratory employees are expected to maintain a safe working environment and an injury-free workplace. Laboratory employees are responsible for their own safety, the safety of others and adhering to all departmental and medical center safety policies and procedures.   * For standard precautions and safety practices in the laboratory; see **Safety Practices**, specifically, but not limited to, equipment safety, proper body mechanics, sharps exposure and proper use of personal protective equipment (PPE). * For Universal Body Substance precautions, see **Universal Body Substance Precautions**, specifically, but not limited to, exposure to body fluids. * For proper hand-washing, see **Hand washing Policy**, specifically, not limited to, proper hand-washing. * For proper infection control, see **Infection Control**, specifically, but not limited to, proper use of gloves. * For proper handling of regular and infectious waste, see **Handling of Regular and Infectious Waste**, specifically, but not limited to, proper disposal of regular and biohazardous waste. * For proper cleaning of work area, see **Cleaning Work Areas**. * For proper handling of chemicals and reagents, see the Chemical Hygiene Plan. * For proper storage and disposal of chemical hazardous waste, see **Storage & Disposal of Chemical Hazardous Waste**. All laboratory employees are expected to maintain a safe working environment and an injury-free workplace. Laboratory employees are responsible for their own safety, the safety of others and adhering to all departmental and medical center safety policies and procedures. |

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| Principle | The Sure-Vue Color Mono reagent is a suspension of specially treated horse red blood cells. Added coloration of the suspension facilitates the recognition of positive and negative reactions. The serum or plasma being tested is mixed on a test slide with the reagent. The appearance of dark agglutinates against a blue-green background indicates the presence of IM. If no heterophile antibodies are present, the horse cells remain unagglutinated against a green-brown background. |

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| Reagents | The reagents will remain stable through the expiration date, shown on the label, if stored between 2 and 8 degrees Celsius. Do not freeze.   * Red Cell Reagent: Color-enhanced treated horse red blood cells suspension. * Positive Control: Diluted positive human serum. * Negative Control: Non-reactive diluted human serum. |

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| Procedure | Follow the steps outlined below for Sure-Vue Color Mono testing | |
| Sure-Vue Color Mono Testing | |
| **Step** | **Action** |
| 1 | Bring all reagents and samples to room temperature (20-30 C) before testing. |
| 2 | Determine the number of separate rings that will be needed. A separate ring will be needed for each sample and control. |
| 3 | Shake the vial of Dyed, Color-Enhanced Horse Erythrocytes gently to uniformly mix the suspension. Add one free falling drop of reagent to each ring in use on the slide. |
| 4 | Using a clean pipette for each sample, place one free falling drop of undiluted specimen into center of each labeled ring. |
| 5 | Infectious mononucleosis (IM) positive and negative controls are run with series of test specimens. Place a free falling drop of negative control serum into the center of the ring labeled negative control by squeezing the dropper. Then place a free falling drop of positive control serum into the center of the ring labeled positive control by squeezing the dropper. |
| 6 | Mix the sample or control and the reagent in each circle using a stirrer for each sample or control covering the whole surface of the circle.. |
| 7 | Gently rotate slide for ONE minute. Then allow it to remain UNDISTURBED on a flat surface for an additional one minute. |

**Procedure,**

**Continued**

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| **8** | Examine immediately for agglutination and record the results.  Note: Strong reactions may appear within 10 seconds. |
| **9** | Log all results in Mono Test QC and Patient Log form |
| **10** | Enter result manually in Cerner using Accession Result Entry.  ***Note: Follow Manual result entry protocol (click perform, review results then click verify)***. |

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| **REFERENCE FOR INTERPRETAION OF RESULTS** |
| **POSITIVE**   * **Large clumping with clear blue-green background.** * **Mod clumping with blue-green background.** * **Small clumping with green-brown background** |
| **NEGATIVE**   * **Roughness or not visible clumping with green-brown background** |

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| Reference | |  |  | | --- | --- | | **Document Number** | **Document Name** | | LAMC-PPP-0123 | Safety Practices | | LAMC-PPP-0127 | Infection Control | | LAMC-PPP-0128 | Universal Body Substance Precaution | | LAMC-PPP-0129 | Handling of Regular and Infectious Waste | | LAMC-PPP-0130 | Cleaning Work Areas | | LAMC-PPP-0132 | Hand-washing Policy | | LAMC-PPP-0134 | Storage and Disposal of Chemical Hazardous Waste | |  | Sure-Vue Color Mono Insert | |

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| Author(s) | Alvin Castillo |