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| **Purpose** | QC is performed on iChem VELOCITY to assure that the instrument is functioning as expected and that patient results are reported accurately |

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| **Scope** | To monitor the performance of iChem VELOCITY, QC is performed on regular intervals |

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| Policy | Quality control must be processed and be acceptable every 24 hours before sample results can be released. Carryover check is part of quality control performed on iCHEM Velocity, meaning that an acceptable Quality Control performed is an acceptable Carryover check.QC will be run once every 24 hours. Running of QC will rotate every month and will be run at the beginning of the shift. 1st day of the month will have 2 runs of Quality Control(1 from previous shift and 1 from the next assigned shift). Schedule for running of Quality Control by shift: **Day Shift: JANUARY, APRIL, JULY, OCTOBER****PM Shift: FEB, MAY, AUGUST, NOVEMBER****GY Shift: MARCH, JUNE, SEPTEMBER, DECEMBER** |

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| Workplace Safety | 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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| Reagents  | **Description** | **Vendor** | **Storage** |
| iChem VELOCITY Urine Chemistry Strips | Beckman Coulter | Room temperature |
|  | iChem wash solution | Beckman Coulter | Room temperature |
|  | IRISSpec CA/CB/CC controls Ref 800-7702 | Beckman Coulter | Refrigerated |

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| Control Storage | * Controls are stored at 2 to 8°
* Unopened controls are stable until expiration date listed on the bottle.
* Open stability is up to 15 days
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| Materials and supplies | * Control Rack
* Test tubes
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| **Quality control****rejection** | * If quality control fails. Failure must be documented and the corrective action policies for failed QC must be followed. QC follows a pass/fail system meaning no patient results can be reported until all QC levels are acceptable.
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| Carryover | Carryover is assessed not only by FSE but also on daily basis by performing QC on instrument. |
| Definitions  | IChem VELOCITY utilizes wavelength reflectance and refractive index. |

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| Procedure: | Follow instructions below for performing QC |
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|  | **Step** | **Action** |
| 1 | Make sure that there are enough test strips in the test strip provider |
| 2 | Prepare control tubes according to the directions on the package insert. |
|  | 3 | Place the controls in the following positions onto the Control Rack:

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| --- | --- | --- | --- | --- | --- |
| Position | Insert color | Volume | Contents | Function | Barcode |
| 5 | Blue | 3 ml | CA control | Primary control | No |
| 6 | Green | 3ml | CB control | Primary control | No |
| 7 | Red | 3ml | CC control | Primary control | No |

 |
|  | 4 | Place the rack on the sampler. |
|  | 5 | Press the START button. The system detects the Control Rack and displays the position number. |
|  | 6 | When the control testing is completed, the results are printed and/or transmitted to the LIS depending on the set configuration (Consult QC settings). Document any outlier in the department corrective action log sheet. If the control testing is out, repeat the testing. If it is still not resolve, call for service. |
|  |  | Note: If QC is not acceptable no patient samples can be processed until QC problem has been resolved and QC is acceptable. |

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| Controlled Documents | The following controlled documents support this procedure.

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| **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 |
| LAMC-PPP-0150 | Quality Control on IQ200 |

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| Non Controlled Documents

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|  | Document Name |
| 1 | IChem VELOCITY Operator’s Manual, 300-4449 English Rev E 10/2008 |

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|  | **Document Name** |
|  | IChem VELOCITY Operator’s Manual, 300-4449 English Rev E 10/2008 |

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| Author(s) | Alvin Castillo |