


## Performing Maintenance on the iRICELL 3000 iChem Velocity Analyzer

**Background** This procedure describes how to perform maintenance on the iChem Velocity urine chemistry analyzer.


**Guideline** Maintenance is performed on a routine and scheduled basis to ensure accurate operation of the instrument following manufacturer’s guidelines.

**Daily Maintenance** Refer to the Operator’s manual online or in binder for specific details

Step	Action
1	Empty and clean the strip waste container.
2	Clean the sample transport module.
3	Replace large dessicant in the Strip Provider Module (SPM) every day (see schedule on iRICELL 3000 iChem Velocity Maintenance Log). <ul style="list-style-type: none"> <li>• Date desiccant, being careful not to puncture.</li> </ul>
4	Clean instrument surfaces.
5	Check Test Strip supply: <ul style="list-style-type: none"> <li>• Refer to procedure Tracking Consumables on the iRICELL 3000 UA workstation.</li> <li>• Refer to procedure Loading Chemistry Test Strips on the iRICELL 3000 iChem Velocity Analyzer.</li> </ul>
6	Run daily QC: <ul style="list-style-type: none"> <li>• Refer to procedure Running and Evaluating Controls on the iRICELL 3000 UA Analyzer.</li> </ul>

  
**3x –Weekly  
(M, W, F)  
Maintenance**

Refer to Operator’s manual online or in binder for specific details

Step	Action
1	Clean Strip Provider Module: <ul style="list-style-type: none"> <li>• Use only dry lint free tissue to prevent test strip result interference. Alternatively, vacuum using the designated vacuum cleaner. </li> </ul> <p><b>Note:</b> If loose pads are present in the SPM, discard all strips from the SPM and load new strips.</p>
2	Clean Strip Loader: <ul style="list-style-type: none"> <li>• Use only dry lint free tissue to prevent test strip result interference. Alternatively, vacuum using the designated vacuum cleaner.</li> </ul>

**Weekly Maintenance**

Refer to Operator's manual online or in binder for specific details

Step	Action
1	Clean Wash Station bath: <b>Note:</b> Do not insert cotton swab inside wash tube, as this may clog tube connectors.
2	Clean Strip Conveyor System
3	Clean the Specific Gravity Color Clarity module <b>Note:</b> Performed prior to running daily CA/CB/CC controls.

**Quarterly Maintenance**

Refer to Operator's manual online or in binder for specific details

Step	Action
1	Perform Reflectance CalCheck: <ul style="list-style-type: none"> <li>Verifies reflectance calibration of test strips.</li> </ul>
2	Run Liquid CalCheck: <ul style="list-style-type: none"> <li>Verifies calibration of Specific Gravity, Color and Clarity.</li> </ul>

**As-Needed Maintenance**

Refer to Operator's manual online or in binder for specific details

Step	Action
1	Replace Wash Solution and white-colored filter
2	Clean Sample Tube Detector
3	Clean Barcode Reader Window
4	Clean Optical Sensors on the Sample Transport Module

**Related Documents**

- Tracking Consumables on the iRICELL 3000 UA workstation
- Replacing the Wash Solution on the iRICELL 3000 UA workstation
- Form A: iRICELL 3000 iChem Velocity Maintenance Log
- Loading Chemistry Test Strips on iRICELL Velocity

**References**

- iRICELL 3000 UA workstation operator's manual