

**ICHEM™ 100 MAINTENANCE**

- St. Joseph Medical Center Tacoma, WA   
  St. Clare Hospital Lakewood, WA   
  St. Elizabeth Hospital Enumclaw, WA  
 St. Francis Hospital Federal Way, WA   
  St. Anthony Hospital Gig Harbor, WA   
  PSC

**PURPOSE**

To provide instruction for performing maintenance on the iChem 100™ Urine Chemistry Analyzer.

**RELATED DOCUMENTS**

- iChem™ 100 QC & Maintenance Log                      J-F-UA-2202  
 iChem™ 100 Operation                                      J-W-UA-2200  
 Urinalysis Reagents                                        R-W-UA-0822

**SUPPLIES**

Reagent	Storage	Stability	Open-vial Expiration
Iris System Cleanser	Room Temp	Manufacturer's Dating, if unopened.	18 months
iChem™10 SG Urine Chemistry Strips	2°C - 30°C Protect from light and moisture. Store in a cool dry place. Do not freeze.	Manufacturer's dating, if stored in original capped container.	Remove only the number of strips required for testing and immediately reseal the container. Unused strips are stable to manufacturer's expiration date if stored in the original capped container.
Irispec CA/CB/CC Quality Control	Store at 2-8°C.	Manufacturer's dating, if unopened.	15 days
Thermal Paper Rolls	Room Temp	N/A	N/A

**STEPS**

**Daily Maintenance**

1. Power OFF instrument.
2. Wipe surfaces with Iris System Cleanser. Rinse with water and dry with a paper towel. Avoid excess moisture.
3. Empty the waste container. Clean with Iris System Cleanser. Rinse with water and dry with a towel.
4. Examine belt assembly and pulleys for debris, damage, belts off track, twisting or spills.
5. Turn the power back ON and perform daily Quality Control. Record results on maintenance log.

## Weekly Maintenance

### 1. Cleaning the Belt Assembly

- Power the instrument off.
- Remove the instrument cover by sliding it toward forward. The belt assembly is now visible.
- Carefully remove the belts from the transport and incubation pulleys. Wash with soap/ water, and dry with a paper towel. NOTE: Do not soak the belts.
- Wipe the incubation and transport rollers with Iris System Cleanser and dry carefully.
- Replace the belts in their original grooved positions.
- Replace the instrument cover back on the instrument.
- Power the instrument on.
- Run the Load Drive Test [F3] and Incubation Drive Test [F4] to reseat belts and remove any twists.
- **Load Drive Test:** This test is performed after cleaning or replacing the transport belts to reseat belts and remove any twists.
  - From the Diagnostics screen, press the [F3] key to activate the transport belts. After one minute, press the [F1] key to stop the belts.
- **Incubation Drive Test:** This test is performed after replacing the incubation belts to reseat belts and remove any twists.
  - From the Diagnostics screen, press the [F4] key to activate the incubation belts on which the urine test strips are transported for analysis. After one minute, press the [F1] key to stop the belts.
- Record results on maintenance log

### As needed maintenance

#### 1. Replacing Paper Roll

- Remove the remaining paper and the empty core.
- Feed the paper manually under the print roller with the inside face of the paper up and away from you.
- Press the [Page Up] key until the paper comes through the opening. Do not pull the paper through the roller.
- Seat the paper roll into the paper holder.


## TROUBLESHOOTING

- Note: Refer to the iChem™100 Urine Chemistry Analyzer – Operations Manual for assistance with troubleshooting, Chapter 7, Maintenance and Service.
- If unable to resolve issue, contact Beckman Technical Support for assistance.

## REFERENCES

iChem™ 100 Urine Chemistry Analyzer – Operations Manual, Iris Diagnostics, Rev C, 1/2007.

iChem™ 100 Urine Chemistry Analyzer – Quick Start Guide, Iris Diagnostics

<b>DOCUMENT APPROVAL Purpose of Document / Reason for Change:</b>			
New Document			
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<b>Committee Approval Date</b>	<input type="checkbox"/> Date: 10/24/13 <input type="checkbox"/> N/A – revision of department-specific document which is used at only one facility	<b>Medical Director Approval (Electronic Signature)</b>	 10/24/13