

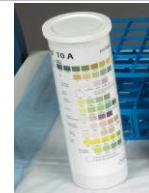
Urine Dipstick Emergency Dept: Quality Control Test Procedure

PURPOSE

To provide instruction for the daily Urine Quality Control with the Roche Chemstrip 10A Test Strips.

REQUIRED MATERIALS

- Chemstrip 10A Test Strips - Roche
- Gloves
- Timer
- Absorbent towel/pad for blotting.
- QC Record Sheet – Normal/Level 1 and Abnormal/Level 2 Controls
- Quality Control Result Chart - BioRad qUAntify.




SEE SUPPLY LIST APPENDIX




➤ QC at Children's Hospital Emergency and Medical Mobile Unit

- BioRad qUAntify Quality Control:

- Level 1 – Normal urine
- Level 2 – Abnormal urine
- - 12 mL Vials each
- - Store unopened vials in refrigerator.
- - Open Vial expiry is 10 days at room temperature (18-25°C) or 31 Days refrigerated. (Ketone stability at room temperature is 10 days, stability for all other tests at room temperature is 31 days.)



	ACTION	Related Documents Title Number
	<p>Note: Quality Control is performed:</p> <ul style="list-style-type: none"> • Once within a 24 hour period before patient testing. • When starting a new vial of Chemstrip 10A test strips. • When starting a new lot number of Chemstrip 10A test strips. 	
1.	Gather equipment and assemble supplies on work space.	
		
2.	Wear Gloves	
3.	Urine Quality Control is at room temperature before testing. Check for dates in use.	
4.	<p>Obtain Urine Test Strip Vial – Chemstrip 10A.</p> <ul style="list-style-type: none"> • Check vial for expiry date. • Remove urine test strip from vial. • Immediately replace the cap for a tight seal. <p>Note: Discard the Chemstrip 10A strip vial and contents if found with cap removed.</p>	

	ACTION	Related Documents Title Number																																																															
5.	<p>Test the Urine Quality Control (UQC) solutions.</p> <ul style="list-style-type: none"> • Mix UQC sample well just before testing. • Apply UQC for approximately one second. 																																																																
	<ul style="list-style-type: none"> • Add a couple of drops onto the test strip from the Quality Control vial. 																																																																
	<ul style="list-style-type: none"> • Gently touch the long edge of the test strip to a piece of absorbent paper to remove any excess urine. <p style="color: red; font-weight: bold;">Caution: Do not blot urine test strip onto pad with color pads facing down onto the absorbent material.</p>																																																																
	<ul style="list-style-type: none"> • Place the test strip, pads facing up, onto paper towel or absorbent pad. • Set timer for 60 seconds for test pads to develop. 																																																																
6.	<p>Urine Quality Control Results</p> <ul style="list-style-type: none"> • Hold container upright and test strip vertically. • Compare each test pad to the corresponding row of color blocks on the label. 																																																																
	<ul style="list-style-type: none"> • Read @ (seconds) 																																																																
	<p>Compare reagent area on test strip at specified times to color chart on test strip bottle. Circle result.</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 15%;">SG</td> <td style="width: 10%;">60</td> <td style="width: 10%;">1.000</td> <td style="width: 10%;">1.005</td> <td style="width: 10%;">1.010</td> <td style="width: 10%;">1.015</td> <td style="width: 10%;">1.020</td> <td style="width: 10%;">1.025</td> <td style="width: 10%;">1.030</td> </tr> <tr> <td>pH</td> <td>60</td> <td colspan="2"></td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> </tr> <tr> <td>Leukocytes</td> <td>60-120</td> <td colspan="2">Leucocytes/uL</td> <td>neg</td> <td>1+ 10-25</td> <td>2+ 75</td> <td>3+ 500</td> <td></td> </tr> <tr> <td>Nitrite</td> <td>60</td> <td colspan="2"></td> <td>neg</td> <td>pos</td> <td colspan="3"></td> </tr> <tr> <td>Protein</td> <td>60</td> <td colspan="2">g/L</td> <td>neg</td> <td>1+ 0.3</td> <td>2+ 1.0</td> <td>3+ 5.0</td> <td></td> </tr> <tr> <td>Glucose</td> <td>60</td> <td colspan="2">mmol/L</td> <td>normal</td> <td>1+ 2.8</td> <td>2+ 5.5</td> <td>3+ 17</td> <td>4+ 56</td> </tr> <tr> <td>Ketones</td> <td>60</td> <td colspan="2"></td> <td>neg</td> <td>1+</td> <td>2+</td> <td>3+</td> <td></td> </tr> </table>	SG	60	1.000	1.005	1.010	1.015	1.020	1.025	1.030	pH	60			5	6	7	8	9	Leukocytes	60-120	Leucocytes/uL		neg	1+ 10-25	2+ 75	3+ 500		Nitrite	60			neg	pos				Protein	60	g/L		neg	1+ 0.3	2+ 1.0	3+ 5.0		Glucose	60	mmol/L		normal	1+ 2.8	2+ 5.5	3+ 17	4+ 56	Ketones	60			neg	1+	2+	3+		
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Medical Approval: Dr Benjamin Jung



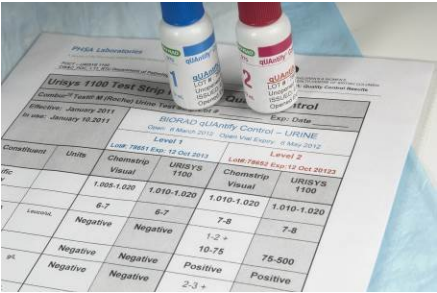
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Medical Approval Date: 28 Dec 2016

Implementation Date: 4/27/2017 11:47:01 PM

ACTION								Related Documents Title Number
Urobilinogen	60	umol/L	normal	1+ 17	2+ 70	3+ 140	4+ 200	
Bilirubin	60		neg	1+	2+	3+		
Blood	60	Erythrocytes/uL	neg	1+	2+	3+	4+	
			intact	5-10	25	50	250	
			lyzed	10	25	50	250	
Level 1 UQC								
								
Level 2 UQC								
								
7.	Document UQC results onto QC record sheets – Level 1 and 2.							
8.	Check UQC Results with appropriate chart. Check for current lot #'s and expiry dates of the UQC's.							
								
	If			then				
	Within QC acceptable limits			Proceed to Patient testing.				

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	ACTION	Related Documents Title Number
	<p>Not within QC acceptable limits.</p> <p>Possible cause:</p> <ul style="list-style-type: none"> • Lid off of Test Strip Vial? • Inadequate sampling – test strip not inserted into solution? • Inadequate mixing? • QC lid left off vial? • QC not within expiry date? • QC not within open vial expiry date? <p>Action:</p> <ul style="list-style-type: none"> • Open new vial of Test Strips, and discard the vial with the lid left off. • Discard UQC if lid left off vial. • Discard UQC if not within expiry date. • Discard UQC if not within open expiry date. • Repeat UQC testing with new test strip – ensure full absorption of test pads. Mix UQC well before testing. 	
	<p>Contact POCT Technologist or Chemistry Lab for new Quality Control in walk-in refrigerator.</p> <p>Children’s & Women’s Laboratory: 604-875-2345</p> <p>Point of Care Testing: Monday-Friday: ext: 7521</p> <p>Chemistry Lab: Weekends, after hours: ext: 7820 Rm. 2J17</p>	
9.	Dispose of urine test strip in appropriate waste as per established procedure.	

REVISION & APPROVAL LOG

Version	Revision Type	Description of Change	Revision Date	Technical Approval	Medical Approval
1.0		New document		Elvira Kozak	Dr. Cathy Halstead
1.1	Minor	Document title and number change. Upload to QMS document control	28 Dec 2016		Dr. Benjamin Jung
1.2	Minor	Removed references to Kovatrol QC no longer in use.	Apr 27, 2017	Calvin Lee	

Attention: This document is published on the BCCW SharePoint website

Revisions made to this document require an update to the corresponding document published on BCCW SharePoint website