



<b>TITLE:</b> POCT Performing Urine Analysis	<b>Doc #:</b> 19351
<b>Section:</b> \\Management System\PLM\General\PLM Website\Point of Care Testing\Urinalysis\	<b>Version:</b> 1.0 Current
<b>Document Owner:</b> Technical Specialist POC Chemistry	<b>Revision Date:</b> 10/23/2013
<b>Final Approval:</b> Dr Bassam Nassar	

**Purpose** This procedure provides instructions for performing urine analysis using the Multistix 10sg reagent strip.

**Abbreviations** UA = Urinalysis  
POC = Point of Care

**Materials**

<b>Reagents</b>
Multistix 10sg reagent strip for urinalysis, Siemens, 2300A

**Reagents preparation:** None

**Reagents stability and storage:** Until expiry date at room temperature.

<b>Supplies</b>
Sterile urine container

<b>Equipment</b>
Timing device that measures minutes

**Sample**

Sample type	Amount required	Transport and Storage	Stability
No preservatives random urine	10 mL	Room temperature	2-4 hours

**Limitations:** Ideally urine should be examined within 2-4 hours after collection. Some chemical and microscopic components begin to deteriorate after 4 hours. Specimens should be at room temperature before testing.



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**Note:**

- The first morning urine is the preferred sample.
- Skin cleansers should not be used prior to collection as they may interfere with analysis.

**Special Safety Precautions** Refer to CDHA Safety Manual for standard safety procedures.

**Maintenance Complete QA Form**

Step	Action
1.1	Record lot number of reagent strips in use.
1.2	Record QC results. To be done monthly or when a new lot number of strips are to be used.
1.3	Record quality issues as required.
1.4	Retain all QA forms in a binder available for review.

**Quality Control**

Control	Level	Stability	Frequency	Preparation (y/n)
Liquichek urinalysis control, Bilevel minipak, Biorad, 435x	1, 2	Up to expiry date unopened at 2-8°C  30 days once opened at 2-25°C	Monthly and with each new lot number	None

**Control preparation:** Mix well and bring to room temperature before use.

**Note:**

Follow *2.0 Analyzing Urine Sample* for processing Quality Control Material.



**Procedure**

**1.0 Collect Sample**

Step	Action
1.1	Label sterile urine container with: <ul style="list-style-type: none"><li>• Patient name,</li><li>• Patient MRN and/or HCN number</li><li>• Time and date of collection</li></ul>
1.2	Give labeled container to patient
1.3	Instruct patient on urine collection guidelines <b>Note:</b> Skin cleansers should not be used prior to collection as they may interfere with analysis
1.4	Obtain sample from patient and move to testing area

**2.0 Analyzing urine sample**

Step	Action
2.1	Attach label with patient's name and/or medical record number on the <i>POC Urinalysis Form</i>
2.2	Dip Multistix strip in the labeled urine container. <b>Note:</b> Immerse all pads.
2.3	Remove the strip from container by slowly run the edge of the strip against the side of the container to remove excess urine <b>Note:</b> Do not remove the excess against a paper towel as this may cause inaccurate results by one reagent pad color contaminating another reagent pad
2.4	Set timer for 60 seconds and immediately read results using color chart provided on side of strip container <b>Note:</b> Results must be read after 1 minute and no more than 3 minutes after removing strip from sample.

**3.0 Record results**

Step	Action
3.1	Record all results on the <i>POC Urinalysis Form</i> . <b>Note:</b> Complete all required area on form.

**Result**

**Interpretation**

If urine is bloody or intensely coloured all tests except colour, appearance and specific gravity are INVALID.

If bilirubin indicates "Moderate" or "Large" it is recommended that sample be sent to Laboratory for analysis.



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**Expected Values**

Analyte	Normal result
Colour	Straw
Appearance	Clear
Leukocyte	Negative
Nitrite	Negative
pH	Diet dependant
Specific gravity	<1.005 to > 1.030
Protein	Negative to trace
Glucose	Negative
Ketone	Negative
Urobilinogen	3.2 to 16µmol/L
Bilirubin	Negative
Blood	Negative

Refer to package insert for urine chemistry sensitivity.

**Limitations**

Refer to Multistix 10sg reagent strip package insert.

**Principle**

Refer to Multistix 10sg reagent strip package insert.

**Related Procedures and Documents**

Document Name	Document #	Location
Laboratory Testing Guidelines	CC 085-019	Intranet
<a href="#">[Paralink:&lt;Clinitek Status QA Log&gt;]</a>	27982	Paradigm

**Reference**

Siemens Multistix 10sg reagent strip package insert.